Operator APIs

ConnectorsCore \[operator.con ConnectorsGit \[operator.conne Connectors

ConnectorsMaven \[operator.cc ConnectorsOCI \[operator.conn Connectors

ConnectorsCore [operator.connectors.alauda.io/v1alpha1]

Description

ConnectorsCore is the Schema for the connectorscore API.

Type

`object`

Specification

Property	Type	Description
`apiVersion`	`string`	APIVersion defines the versioned schema of this representation of an object. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources ↗
`kind`	`string`	Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint the client submits requests to. Cannot be updated. In CamelCase. More info:

Property	Type	Description
		https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds ↗
`metadata`	`ObjectMeta` ↗	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
`spec`	`object`	ConnectorsCoreSpec defines the desired state of ConnectorsCore.
`status`	`object`	ComponentStatus defines the observed state of Connector

.spec

Description

ConnectorsCoreSpec defines the desired state of ConnectorsCore.

Type

`object`

Property	Type	Description
`additionalManifests`	`string`	A means to specify the additional manifests to install, eg: http://example.com/manifests.yaml ↗
`annotations`	`object`	Annotations overrides labels for the namespace and its template.

Property	Type	Description
`labels`	`object`	Labels overrides labels for the namespace and its template.
`registry`	`string`	Registry overrides the default registry for the workloads. The registry is used to replace the prefix of the image. the image reference format is /:@.
`workloads`	`array`	Workloads overrides workloads configurations such as resources and replicas.

.spec.annotations

Description

Annotations overrides labels for the namespace and its template.

Type

`object`

.spec.labels

Description

Labels overrides labels for the namespace and its template.

Type

`object`

.spec.workloads

Description

Workloads overrides workloads configurations such as resources and replicas.

Type

`array`

.spec.workloads[]

Description

WorkloadOverride overrides the workload configurations.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name is the name of the deployment to override.
`replicas`	`integer`	Number of desired pods. This is a pointer to distinguish between explicit zero and not specified. Defaults to 1.
`template`	`object`	Template describes the pods that will be created. The only allowed template.spec.restartPolicy value is "Always".

.spec.workloads[].template

Description

Template describes the pods that will be created. The only allowed template.spec.restartPolicy value is "Always".

Type

`object`

Property	Type	Description
`metadata`	`ObjectMeta` ↗	Standard object's metadata. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#metadata ↗
`spec`	`object`	Specification of the desired behavior of the pod. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#spec-and-status ↗

.spec.workloads[].template.spec

Description

Specification of the desired behavior of the pod. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#spec-and-status

Type

`object`

Required

`containers`

Property	Type	Description
`activeDeadlineSeconds`	`integer`	Optional duration in seconds the pod may StartTime before the system will actively tr containers. Value must be a positive intege

Property	Type	Description
`affinity`	`object`	If specified, the pod's scheduling constrain
`automountServiceAccountToken`	`boolean`	AutomountServiceAccountToken indicates be automatically mounted.
`containers`	`array`	List of containers belonging to the pod. Co removed. There must be at least one conta
`dnsConfig`	`object`	Specifies the DNS parameters of a pod. Pa to the generated DNS configuration based
`dnsPolicy`	`string`	Set DNS policy for the pod. Defaults to "Cl 'ClusterFirstWithHostNet', 'ClusterFirst', 'De in DNSConfig will be merged with the polic DNS options set along with hostNetwork, y to 'ClusterFirstWithHostNet'.
`enableServiceLinks`	`boolean`	EnableServiceLinks indicates whether info injected into pod's environment variables, r Optional: Defaults to true.

Property	Type	Description
`ephemeralContainers`	`array`	List of ephemeral containers run in this poc an existing pod to perform user-initiated ac cannot be specified when creating a pod, a the pod spec. In order to add an ephemera pod's ephemeralcontainers subresource.
`hostAliases`	`array`	HostAliases is an optional list of hosts and hosts file if specified.
`hostIPC`	`boolean`	Use the host's ipc namespace. Optional: D
`hostNetwork`	`boolean`	Host networking requested for this pod. Us option is set, the ports that will be used mu
`hostPID`	`boolean`	Use the host's pid namespace. Optional: D
`hostUsers`	`boolean`	Use the host's user namespace. Optional: present, the pod will be run in the host use needs a feature only available to the host u kernel module with CAP_SYS_MODULE. V created for the pod. Setting false is useful f vulnerabilities even allowing users to run th having root privileges on the host. This fiel servers that enable the UserNamespacesS

Property	Type	Description
`hostname`	`string`	Specifies the hostname of the Pod If not sp to a system-defined value.
`imagePullSecrets`	`array`	ImagePullSecrets is an optional list of refer namespace to use for pulling any of the im these secrets will be passed to individual p More info: https://kubernetes.io/docs/conce imagepullsecrets-on-a-pod ↗
`initContainers`	`array`	List of initialization containers belonging to order prior to containers being started. If a considered to have failed and is handled a for an init container or normal container mu containers may not have Lifecycle actions, Startup probes. The resourceRequirement account during scheduling by finding the hi type, and then using the max of of that valu Limits are applied to init containers in a sim currently be added or removed. Cannot be https://kubernetes.io/docs/concepts/worklo
`nodeName`	`string`	NodeName indicates in which node this po candidate for scheduling by the scheduler field is set, the kubelet for this node becom pod. This field should not be used to expre on a specific node. https://kubernetes.io/dc pod-node/#nodename ↗

Property	Type	Description
`nodeSelector`	`object`	NodeSelector is a selector which must be t which must match a node's labels for the p info: https://kubernetes.io/docs/concepts/c
`os`	`object`	Specifies the OS of the containers in the p restricted if this is set. If the OS field is set to linux, the following f securityContext.windowsOptions If the OS field is set to windows, following f • spec.hostPID • spec.hostIPC • spec.hostUsers • spec.securityContext.appArmorProfile • spec.securityContext.seLinuxOptions • spec.securityContext.seccompProfile • spec.securityContext.fsGroup • spec.securityContext.fsGroupChangeP • spec.securityContext.sysctls • spec.shareProcessNamespace • spec.securityContext.runAsUser • spec.securityContext.runAsGroup • spec.securityContext.supplementalGrou • spec.securityContext.supplementalGrou • spec.containers[*].securityContext.appA • spec.containers[*].securityContext.seLi • spec.containers[*].securityContext.secc

Property	Type	Description
		• spec.containers[*].securityContext.capa • spec.containers[*].securityContext.read • spec.containers[*].securityContext.privil • spec.containers[*].securityContext.allov • spec.containers[*].securityContext.proc • spec.containers[*].securityContext.runA • spec.containers[*].securityContext.runA
`overhead`	`object`	Overhead represents the resource overhea given RuntimeClass. This field will be auto RuntimeClass admission controller. If the F enabled, overhead must not be set in Pod admission controller will reject Pod create already set. If RuntimeClass is configured will be set to the value defined in the corre remain unset and treated as zero. More inf https://git.k8s.io/enhancements/keps/sig-n
`preemptionPolicy`	`string`	PreemptionPolicy is the Policy for preempt Never, PreemptLowerPriority. Defaults to F
`priority`	`integer`	The priority value. Various system compon the pod. When Priority Admission Controlle setting this field. The admission controller PriorityClassName. The higher the value, t
`priorityClassName`	`string`	If specified, indicates the pod's priority. "sy critical" are two special keywords which inc

Property	Type	Description
		former being the highest priority. Any other PriorityClass object with that name. If not s or zero if there is no default.
`readinessGates`	`array`	If specified, all readiness gates will be eval when all its containers are ready AND all c gates have status equal to "True" More info https://git.k8s.io/enhancements/keps/sig-n
`resourceClaims`	`array`	ResourceClaims defines which ResourceC before the Pod is allowed to start. The reso containers which consume them by name. This is an alpha field and requires enablin feature gate. This field is immutable.
`restartPolicy`	`string`	Restart policy for all containers within the p some contexts, only a subset of those valu More info: https://kubernetes.io/docs/conce lifecycle/#restart-policy ↗
`runtimeClassName`	`string`	RuntimeClassName refers to a RuntimeCla which should be used to run this pod. If no named class, the pod will not be run. If uns will be used, which is an implicit class with default runtime handler. More info: https://g node/585-runtime-class ↗

Property	Type	Description
`schedulerName`	`string`	If specified, the pod will be dispatched by s pod will be dispatched by default schedule
`schedulingGates`	`array`	SchedulingGates is an opaque list of value the pod. If schedulingGates is not empty, tl state and the scheduler will not attempt to SchedulingGates can only be set at pod cr afterwards.
`securityContext`	`object`	SecurityContext holds pod-level security at settings. Optional: Defaults to empty. See t each field.
`serviceAccount`	`string`	DeprecatedServiceAccount is a deprecate Deprecated: Use serviceAccountName ins
`serviceAccountName`	`string`	ServiceAccountName is the name of the S More info: https://kubernetes.io/docs/tasks service-account/ ↗

Property	Type	Description
`setHostnameAsFQDN`	`boolean`	If true the pod's hostname will be configure leaf name (the default). In Linux containers hostname field of the kernel (the nodenam containers, this means setting the registry HKEY_LOCAL_MACHINE\SYSTEM\Curre to FQDN. If a pod does not have FQDN, th
`shareProcessNamespace`	`boolean`	Share a single process namespace betwee this is set containers will be able to view ar containers in the same pod, and the first pr assigned PID 1. HostPID and ShareProces Optional: Default to false.
`subdomain`	`string`	If specified, the fully qualified Pod hostnam pod will not have a domainname at all.
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need decreased in delete request. Value must b indicates stop immediately via the kill signa value is nil, the default grace period will be duration in seconds after the processes ru signal and the time when the processes ar this value longer than the expected cleanu seconds.
`tolerations`	`array`	If specified, the pod's tolerations.

Property	Type	Description
`topologySpreadConstraints`	`array`	TopologySpreadConstraints describes how across topology domains. Scheduler will sc the constraints. All topologySpreadConstra
`volumes`	`array`	List of volumes that can be mounted by co info: https://kubernetes.io/docs/concepts/st

.spec.workloads[].template.spec.affinity

Description

If specified, the pod's scheduling constraints

Type

`object`

Property	Type	Description
`nodeAffinity`	`object`	Describes node affinity scheduling rules for the pod.
`podAffinity`	`object`	Describes pod affinity scheduling rules (e.g. co-locate this pod in the same node, zone, etc. as some other pod(s)).
`podAntiAffinity`	`object`	Describes pod anti-affinity scheduling rules (e.g. avoid putting this pod in the same node, zone, etc. as some other pod(s)).

.spec.workloads[].template.spec.affinity.nodeAffinity

Description

Describes node affinity scheduling rules for the pod.

Type

`object`

Property	Type	Description
`preferredDuringSchedulingIgnoredDuringExecution`	`array`	The scheduler will pr to schedule pods to nodes that satisfy the affinity expressions specified by this field, it may choose a node violates one or more the expressions. The node that is most preferred is the one w the greatest sum of weights, i.e. for each node that meets all o scheduling requireme (resource request, requiredDuringSched affinity expressions, e compute a sum by iterating through the elements of this field adding "weight" to the sum if the node matc the corresponding matchExpressions; th node(s) with the high

Property	Type	Description
		sum are the most preferred.
`requiredDuringSchedulingIgnoredDuringExecution`	`object`	If the affinity requirem specified by this field not met at scheduling time, the pod will not scheduled onto the n If the affinity requirem specified by this field cease to be met at sc point during pod execution (e.g. due tc update), the system r or may not try to eventually evict the p from its node.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node matches the corresponding matchExpressions; the node(s) with the highest sum are the most preferred.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

An empty preferred scheduling term matches all objects with implicit weight 0 (i.e. it's a no-op). A null preferred scheduling term matches no objects (i.e. is also a no-op).

Type

`object`

Required

`preference` `weight`

Property	Type	Description
`preference`	`object`	A node selector term, associated with the corresponding weight.
`weight`	`integer`	Weight associated with matching the corresponding nodeSelectorTerm, in the range 1-100.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference

Description

A node selector term, associated with the corresponding weight.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	A list of node selector requirements by node's labels.
`matchFields`	`array`	A list of node selector requirements by node's fields.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions

Description

A list of node selector requirements by node's labels.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preferenc

e.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields

Description

A list of node selector requirements by node's fields.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.

Property	Type	Description
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to an update), the system may or may not try to eventually evict the pod from its node.

Type

`object`

Required

`nodeSelectorTerms`

Property	Type	Description
`nodeSelectorTerms`	`array`	Required. A list of node selector terms. The terms are ORed.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms

Description

Required. A list of node selector terms. The terms are ORed.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelect

orTerms[]

Description

A null or empty node selector term matches no objects. The requirements of them are ANDed. The TopologySelectorTerm type implements a subset of the NodeSelectorTerm.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	A list of node selector requirements by node's labels.
`matchFields`	`array`	A list of node selector requirements by node's fields.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions

Description

A list of node selector requirements by node's labels.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields

Description

A list of node selector requirements by node's fields.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelect

orTerms[].matchFields[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity

Description

Describes pod affinity scheduling rules (e.g. co-locate this pod in the same node, zone, etc. as some other pod(s)).

Type

`object`

Property	Type	Description
`preferredDuringSchedulingIgnoredDuringExecution`	`array`	The scheduler will pr to schedule pods to nodes that satisfy the affinity expressions specified by this field, it may choose a node violates one or more the expressions. The node that is most preferred is the one v the greatest sum of weights, i.e. for each node that meets all o scheduling requireme (resource request, requiredDuringSched affinity expressions, e compute a sum by iterating through the elements of this field

Property	Type	Description
		adding "weight" to the sum if the node has p which matches the corresponding podAffinityTerm; the node(s) with the high sum are the most preferred.
`requiredDuringSchedulingIgnoredDuringExecution`	`array`	If the affinity requirem specified by this field not met at scheduling time, the pod will not scheduled onto the n If the affinity requirem specified by this field cease to be met at so point during pod execution (e.g. due to pod label update), the system may or may n try to eventually evict pod from its node. Wh there are multiple elements, the lists of nodes corresponding each podAffinityTerm intersected, i.e. all ter must be satisfied.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node has pods which matches the corresponding podAffinityTerm; the node(s) with the highest sum are the most preferred.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

The weights of all of the matched WeightedPodAffinityTerm fields are added per-node to find the most preferred node(s)

Type

`object`

Required

`podAffinityTerm` `weight`

Property	Type	Description
`podAffinityTerm`	`object`	Required. A pod affinity term, associated with the corresponding weight.

Property	Type	Description
`weight`	`integer`	weight associated with matching the corresponding podAffinityTerm, in the range 1-100.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm

Description

Required. A pod affinity term, associated with the corresponding weight.

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod

Property	Type	Description
		labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Property	Type	Description
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinit

yTerm.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinit

yTerm.namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to a pod label update), the system may or may not try to eventually evict the pod from its node. When there are multiple elements, the lists of nodes corresponding to each podAffinityTerm are intersected, i.e. all terms must be satisfied.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[]

Description

Defines a set of pods (namely those matching the labelSelector relative to the given namespace(s)) that this pod should be co-located (affinity) or not co-located (anti-affinity) with, where co-located is defined as running on a node whose value of the label with key <topologyKey> matches that of any node on which a pod of the set of pods is running

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Property	Type	Description
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Property	Type	Description
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.

Property	Type	Description
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchL

abelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespac

eSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity

Description

Describes pod anti-affinity scheduling rules (e.g. avoid putting this pod in the same node, zone, etc. as some other pod(s)).

Type

`object`

Property	Type	Description
`preferredDuringSchedulingIgnoredDuringExecution`	`array`	The scheduler will pr to schedule pods to nodes that satisfy the anti-affinity expressio specified by this field, it may choose a node violates one or more the expressions. The node that is most preferred is the one w the greatest sum of weights, i.e. for each node that meets all o scheduling requireme (resource request, requiredDuringSched anti-affinity expressio etc.), compute a sum iterating through the elements of this field adding "weight" to the sum if the node has p

Property	Type	Description
		which matches the corresponding podAffinityTerm; the node(s) with the high sum are the most preferred.
`requiredDuringSchedulingIgnoredDuringExecution`	`array`	If the anti-affinity requirements specifie this field are not met scheduling time, the p will not be scheduled the node. If the anti-affinity requirements specified by this field cease to be met at sc point during pod execution (e.g. due to pod label update), the system may or may n try to eventually evict pod from its node. Wh there are multiple elements, the lists of nodes corresponding each podAffinityTerm intersected, i.e. all ter must be satisfied.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the anti-affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling anti-affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node has pods which matches the corresponding podAffinityTerm; the node(s) with the highest sum are the most preferred.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

The weights of all of the matched WeightedPodAffinityTerm fields are added per-node to find the most preferred node(s)

Type

`object`

Required

`podAffinityTerm` `weight`

Property	Type	Description
`podAffinityTerm`	`object`	Required. A pod affinity term, associated with the corresponding weight.
`weight`	`integer`	weight associated with matching the corresponding podAffinityTerm, in the range 1-100.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm

Description

Required. A pod affinity term, associated with the corresponding weight.

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Property	Type	Description
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Property	Type	Description
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAf

finityTerm.namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAf

finityTerm.namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the anti-affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the anti-affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to a pod label update), the system may or may not try to eventually evict the pod from its node. When there are multiple elements, the lists of nodes corresponding to each podAffinityTerm are intersected, i.e. all terms must be satisfied.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[]

Description

Defines a set of pods (namely those matching the labelSelector relative to the given namespace(s)) that this pod should be co-located (affinity) or not co-located (anti-affinity) with, where co-located is defined as running on a node whose value of the label with key <topologyKey> matches that of any node on which a pod of the set of pods is running

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Property	Type	Description
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Property	Type	Description
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.

Property	Type	Description
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismat

chLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].names

paceSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces[]

Type

`string`

.spec.workloads[].template.spec.containers

Description

List of containers belonging to the pod. Containers cannot currently be added or removed. There must be at least one container in a Pod. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[]

Description

A single application container that you want to run within a pod.

Type

`object`

Required

`name`

Property	Type	Description
`args`	`array`	Arguments to the entrypoint. The container imag if this is not provided. Variable references $(VAR expanded using the container's environment. If a be resolved, the reference in the input string will Double $$ are reduced to a single $, which allow the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" string literal "$(VAR_NAME)". Escaped reference expanded, regardless of whether the variable ex Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`command`	`array`	Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provi references $(VAR_NAME) are expanded using tl environment. If a variable cannot be resolved, th the input string will be unchanged. Double $$ are single $, which allows for escaping the $(VAR_N i.e. "$$(VAR_NAME)" will produce the string liter "$(VAR_NAME)". Escaped references will never regardless of whether the variable exists or not. updated. More info: https://kubernetes.io/docs/ta application/define-command-argument-container command-in-a-shell ↗
`env`	`array`	List of environment variables to set in the contair updated.
`envFrom`	`array`	List of sources to populate environment variables container. The keys defined within a source mus

Property	Type	Description
		C_IDENTIFIER. All invalid keys will be reported a when the container is starting. When a key exists sources, the value associated with the last sourc precedence. Values defined by an Env with a du take precedence. Cannot be updated.
`image`	`string`	Container image name. More info: https://kubernetes.io/docs/concepts/containers/ir field is optional to allow higher level config mana default or override container images in workload Deployments and StatefulSets.
`imagePullPolicy`	`string`	Image pull policy. One of Always, Never, IfNotPre to Always if :latest tag is specified, or IfNotPrese Cannot be updated. More info: https://kubernetes.io/docs/concepts/containers/ir images ↗
`lifecycle`	`object`	Actions that the management system should tak container lifecycle events. Cannot be updated.
`livenessProbe`	`object`	Periodic probe of container liveness. Container w the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`name`	`string`	Name of the container specified as a DNS_LABE container in a pod must have a unique name (DN

Property	Type	Description
		Cannot be updated.
`ports`	`array`	List of ports to expose from the container. Not sp here DOES NOT prevent that port from being ex which is listening on the default "0.0.0.0" address container will be accessible from the network. Mo array with strategic merge patch may corrupt the information See https://github.com/kubernetes/kubernetes/issues Cannot be updated.
`readinessProbe`	`object`	Periodic probe of container service readiness. Co removed from service endpoints if the probe fails updated. More info: https://kubernetes.io/docs/concepts/workloads/po lifecycle#container-probes ↗
`resizePolicy`	`array`	Resources resize policy for the container.
`resources`	`object`	Compute Resources required by this container. C updated. More info: https://kubernetes.io/docs/concepts/configuration resources-containers/ ↗
`restartPolicy`	`string`	RestartPolicy defines the restart behavior of indiv in a pod. This field may only be set for init contai only allowed value is "Always". For non-init conta this field is not specified, the restart behavior is d

Property	Type	Description
		Pod's restart policy and the container type. Settir RestartPolicy as "Always" for the init container w following effect: this init container will be continua exit until all regular containers have terminated. (containers have completed, all init containers wit "Always" will be shut down. This lifecycle differs f containers and is often referred to as a "sidecar" Although this init container still starts in the init cc sequence, it does not wait for the container to co proceeding to the next init container. Instead, the container starts immediately after this init contair after any startupProbe has successfully complete
`securityContext`	`object`	SecurityContext defines the security options the be run with. If set, the fields of SecurityContext o equivalent fields of PodSecurityContext. More inf https://kubernetes.io/docs/tasks/configure-pod-container/security-context/ ↗
`startupProbe`	`object`	StartupProbe indicates that the Pod has success If specified, no other probes are executed until th successfully. If this probe fails, the Pod will be re the livenessProbe failed. This can be used to prc probe parameters at the beginning of a Pod's life might take a long time to load data or warm a ca steady-state operation. This cannot be updated. https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`stdin`	`boolean`	Whether this container should allocate a buffer fc container runtime. If this is not set, reads from st

Property	Type	Description
		container will always result in EOF. Default is fals
`stdinOnce`	`boolean`	Whether the container runtime should close the s after it has been opened by a single attach. Whe the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is oper start, is empty until the first client attaches to stdi remains open and accepts data until the client di which time stdin is closed and remains closed ur is restarted. If this flag is false, a container proce from stdin will never receive an EOF. Default is fa
`terminationMessagePath`	`string`	Optional: Path at which the file to which the conta termination message will be written is mounted i container's filesystem. Message written is intend final status, such as an assertion failure messag truncated by the node if greater than 4096 bytes. message length across all containers will be limit Defaults to /dev/termination-log. Cannot be upda
`terminationMessagePolicy`	`string`	Indicate how the termination message should be will use the contents of terminationMessagePath container status message on both success and f FallbackToLogsOnError will use the last chunk o output if the termination message file is empty ar exited with an error. The log output is limited to 2 lines, whichever is smaller. Defaults to File. Cann

Property	Type	Description
`tty`	`boolean`	Whether this container should allocate a TTY for requires 'stdin' to be true. Default is false.
`volumeDevices`	`array`	volumeDevices is the list of block devices to be u container.
`volumeMounts`	`array`	Pod volumes to mount into the container's filesys updated.
`workingDir`	`string`	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

.spec.workloads[].template.spec.containers[].args

Description

Arguments to the entrypoint. The container image's CMD is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.containers[].args[]

Type

`string`

.spec.workloads[].template.spec.containers[].command

Description

Entrypoint array. Not executed within a shell. The container image's ENTRYPOINT is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.containers[].command[]

Type

`string`

.spec.workloads[].template.spec.containers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the environment variable. Must be a C_IDENTIFIER.
`value`	`string`	Variable references $(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
`valueFrom`	`object`	Source for the environment variable's value. Cannot be used if value is not empty.

.spec.workloads[].template.spec.containers[].env[].valueFrom

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
`configMapKeyRef`	`object`	Selects a key of a ConfigMap.
`fieldRef`	`object`	Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
`secretKeyRef`	`object`	Selects a key of a secret in the pod's namespace

.spec.workloads[].template.spec.containers[].env[].valueFrom.configMapKeyRef

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key to select.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap or its key must be defined

.spec.workloads[].template.spec.containers[].env[].valueFrom.fieldRef

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.containers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"

Property	Type	Description
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.containers[].env[].valueFrom.secretKeyRef

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key of the secret to select from. Must be a valid secret key.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.containers[].envFrom

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].envFrom[]

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
`configMapRef`	`object`	The ConfigMap to select from
`prefix`	`string`	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
`secretRef`	`object`	The Secret to select from

.spec.workloads[].template.spec.containers[].envFrom[].configMapRef

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap must be defined

.spec.workloads[].template.spec.containers[].envFrom[].secretRef

Description

The Secret to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret must be defined

.spec.workloads[].template.spec.containers[].lifecycle

Description

Actions that the management system should take in response to container lifecycle events. Cannot be updated.

Type

`object`

Property	Type	Description
`postStart`	`object`	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
`preStop`	`object`	PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the

Property	Type	Description
		container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

.spec.workloads[].template.spec.containers[].lifecycle.postStart

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.

Property	Type	Description
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.postStart.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.

Property	Type	Description
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].lifecycle.postStart.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].lifecycle.preStop

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to

Property	Type	Description
		explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.preStop.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.preStop.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].livenessProbe

Description

Periodic probe of container liveness. Container will be restarted if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I

Property	Type	Description
		Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.containers[].livenessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].livenessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.containers[].livenessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].livenessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].livenessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].ports

Description

List of ports to expose from the container. Not specifying a port here DOES NOT prevent that port from being exposed. Any port which is listening on the default "0.0.0.0" address inside a container will be accessible from the network. Modifying this array with strategic merge patch may corrupt the data. For more information See https://github.com/kubernetes/kubernetes/issues/108255. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].ports[]

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
`containerPort`	`integer`	Number of port to expose on the pod's IP address. This must be a valid port number, 0 < x < 65536.
`hostIP`	`string`	What host IP to bind the external port to.
`hostPort`	`integer`	Number of port to expose on the host. If specified, this must be a valid port number, 0 < x < 65536. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
`name`	`string`	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
`protocol`	`string`	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

.spec.workloads[].template.spec.containers[].readinessProbe

Description

Periodic probe of container service readiness. Container will be removed from service endpoints if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu

Property	Type	Description
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.containers[].readinessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].readinessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].readinessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].readinessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.containers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].readinessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].readinessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].readinessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].resizePolicy

Description

Resources resize policy for the container.

Type

`array`

.spec.workloads[].template.spec.containers[].resizePolicy[]

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName` `restartPolicy`

Property	Type	Description
`resourceName`	`string`	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.
`restartPolicy`	`string`	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

.spec.workloads[].template.spec.containers[].resources

Description

Compute Resources required by this container. Cannot be updated. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

Property	Type	Description
`claims`	`array`	Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.containers[].resources.claims

Description

Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.

Type

`array`

.spec.workloads[].template.spec.containers[].resources.claims[]

Description

ResourceClaim references one entry in PodSpec.ResourceClaims.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.
`request`	`string`	Request is the name chosen for a request in the referenced claim. If empty, everything from the claim is made available, otherwise only the result of this request.

.spec.workloads[].template.spec.containers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.containers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.containers[].securityContext

Description

SecurityContext defines the security options the container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext. More info: https://kubernetes.io/docs/tasks/configure-pod-container/security-context/

Type

`object`

Property	Type	Description
`allowPrivilegeEscalation`	`boolean`	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no_new_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1. run as Privileged 2. has CAP_SYS_ADMIN Note that this field cannot be set when spec.os.name is windows.
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.
`capabilities`	`object`	The capabilities to add/drop when running containers. Defaults to the default set of

Property	Type	Description
		capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.
`privileged`	`boolean`	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when spec.os.name is windows.
`procMount`	`string`	procMount denotes the type of proc mount to use for the containers. The default value is Default which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows.
`readOnlyRootFilesystem`	`boolean`	Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.containers[].securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.containers[].securityContext.capabilities

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`add`	`array`	Added capabilities

Property	Type	Description
`drop`	`array`	Removed capabilities

.spec.workloads[].template.spec.containers[].securityContext.capabilities.add

Description

Added capabilities

Type

`array`

.spec.workloads[].template.spec.containers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.containers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.workloads[].template.spec.containers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.containers[].securityContext.seLinuxOptions

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.

Property	Type	Description
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.containers[].securityContext.seccompProfile

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container

Property	Type	Description
		runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.containers[].securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa ↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same

Property	Type	Description
		effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.containers[].startupProbe

Description

StartupProbe indicates that the Pod has successfully initialized. If specified, no other probes are executed until this completes successfully. If this probe fails, the Pod will be restarted, just as if the livenessProbe failed. This can be used to provide different probe parameters at the beginning of a Pod's lifecycle, when it might take a long time to load data or warm a cache, than during steady-state operation. This cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.containers[].startupProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].startupProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].startupProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].startupProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.containers[].startupProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].startupProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].volumeDevices

Description

volumeDevices is the list of block devices to be used by the container.

Type

`array`

.spec.workloads[].template.spec.containers[].volumeDevices[]

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath` `name`

Property	Type	Description
`devicePath`	`string`	devicePath is the path inside of the container that the device will be mapped to.

Property	Type	Description
`name`	`string`	name must match the name of a persistentVolumeClaim in the pod

.spec.workloads[].template.spec.containers[].volumeMounts

Description

Pod volumes to mount into the container's filesystem. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].volumeMounts[]

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath` `name`

Property	Type	Description
`mountPath`	`string`	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
`mountPropagation`	`string`	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. When RecursiveReadOnly is set to IfPossible or to Enabled, MountPropagation must be None or unspecified (which defaults to None).
`name`	`string`	This must match the Name of a Volume.
`readOnly`	`boolean`	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
`recursiveReadOnly`	`string`	RecursiveReadOnly specifies whether read-only mounts should be handled recursively. If ReadOnly is false, this field has no meaning and must be unspecified. If ReadOnly is true, and this field is set to Disabled, the mount is not made recursively read-only. If this field is set to IfPossible, the mount is made recursively read-only, if it is supported by the container runtime. If this field is set to Enabled, the mount is made recursively read-only if it is supported by the container runtime, otherwise the pod will not be started and an error will be generated to indicate the reason. If this field is set to IfPossible or Enabled, MountPropagation must be set to None (or be

Property	Type	Description
		unspecified, which defaults to None). If this field is not specified, it is treated as an equivalent of Disabled.
`subPath`	`string`	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
`subPathExpr`	`string`	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references $(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

.spec.workloads[].template.spec.dnsConfig

Description

Specifies the DNS parameters of a pod. Parameters specified here will be merged to the generated DNS configuration based on DNSPolicy.

Type

`object`

Property	Type	Description
`nameservers`	`array`	A list of DNS name server IP addresses. This will be appended to the base nameservers generated from DNSPolicy. Duplicated nameservers will be removed.
`options`	`array`	A list of DNS resolver options. This will be merged with the base options generated from DNSPolicy. Duplicated entries will be removed. Resolution options given in Options will override those that appear in the base DNSPolicy.
`searches`	`array`	A list of DNS search domains for host-name lookup. This will be appended to the base search paths generated from DNSPolicy. Duplicated search paths will be removed.

.spec.workloads[].template.spec.dnsConfig.nameservers

Description

A list of DNS name server IP addresses. This will be appended to the base nameservers generated from DNSPolicy. Duplicated nameservers will be removed.

Type

`array`

.spec.workloads[].template.spec.dnsConfig.nameservers[]

Type

`string`

.spec.workloads[].template.spec.dnsConfig.options

Description

A list of DNS resolver options. This will be merged with the base options generated from DNSPolicy. Duplicated entries will be removed. Resolution options given in Options will override those that appear in the base DNSPolicy.

Type

`array`

.spec.workloads[].template.spec.dnsConfig.options[]

Description

PodDNSConfigOption defines DNS resolver options of a pod.

Type

`object`

Property	Type	Description
`name`	`string`	Required.
`value`	`string`	

.spec.workloads[].template.spec.dnsConfig.searches

Description

A list of DNS search domains for host-name lookup. This will be appended to the base search paths generated from DNSPolicy. Duplicated search paths will be removed.

Type

`array`

.spec.workloads[].template.spec.dnsConfig.searches[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers

Description

List of ephemeral containers run in this pod. Ephemeral containers may be run in an existing pod to perform user-initiated actions such as debugging. This list cannot be specified when creating a pod, and it cannot be modified by updating the pod spec. In order to add an ephemeral container to an existing pod, use the pod's ephemeralcontainers subresource.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[]

Description

An EphemeralContainer is a temporary container that you may add to an existing Pod for user-initiated activities such as debugging. Ephemeral containers have no resource or scheduling guarantees, and they will not be restarted when they exit or when a Pod is removed or restarted. The kubelet may evict a Pod if an ephemeral container causes the Pod to exceed its resource allocation. To add an ephemeral container, use the ephemeralcontainers subresource of an existing Pod. Ephemeral containers may not be removed or restarted.

Type

`object`

Required

`name`

Property	Type	Description
`args`	`array`	Arguments to the entrypoint. The image's CMD is not provided. Variable references $(VAR_NAME) using the container's environment. If a variable c

Property	Type	Description
		resolved, the reference in the input string will be Double $$ are reduced to a single $, which allow the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" string literal "$(VAR_NAME)". Escaped reference expanded, regardless of whether the variable ex Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`command`	`array`	Entrypoint array. Not executed within a shell. The ENTRYPOINT is used if this is not provided. Vari $(VAR_NAME) are expanded using the containe If a variable cannot be resolved, the reference in will be unchanged. Double $$ are reduced to a s allows for escaping the $(VAR_NAME) syntax: i. "$$(VAR_NAME)" will produce the string literal "$ Escaped references will never be expanded, reg whether the variable exists or not. Cannot be upd https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`env`	`array`	List of environment variables to set in the contair updated.

Property	Type	Description
`envFrom`	`array`	List of sources to populate environment variables container. The keys defined within a source must C_IDENTIFIER. All invalid keys will be reported a when the container is starting. When a key exists sources, the value associated with the last sourc precedence. Values defined by an Env with a du take precedence. Cannot be updated.
`image`	`string`	Container image name. More info: https://kubernetes.io/docs/concepts/containers/ir
`imagePullPolicy`	`string`	Image pull policy. One of Always, Never, IfNotPre to Always if :latest tag is specified, or IfNotPrese Cannot be updated. More info: https://kubernetes.io/docs/concepts/containers/ir images ↗
`lifecycle`	`object`	Lifecycle is not allowed for ephemeral containers
`livenessProbe`	`object`	Probes are not allowed for ephemeral containers
`name`	`string`	Name of the ephemeral container specified as a This name must be unique among all containers, and ephemeral containers.

Property	Type	Description
`ports`	`array`	Ports are not allowed for ephemeral containers.
`readinessProbe`	`object`	Probes are not allowed for ephemeral containers
`resizePolicy`	`array`	Resources resize policy for the container.
`resources`	`object`	Resources are not allowed for ephemeral contai containers use spare resources already allocate
`restartPolicy`	`string`	Restart policy for the container to manage the re each container within a pod. This may only be se containers. You cannot set this field on ephemer
`securityContext`	`object`	Optional: SecurityContext defines the security op ephemeral container should be run with. If set, th SecurityContext override the equivalent fields of PodSecurityContext.
`startupProbe`	`object`	Probes are not allowed for ephemeral containers
`stdin`	`boolean`	Whether this container should allocate a buffer fo container runtime. If this is not set, reads from st container will always result in EOF. Default is fals

Property	Type	Description
`stdinOnce`	`boolean`	Whether the container runtime should close the s after it has been opened by a single attach. Whe the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is oper start, is empty until the first client attaches to stdi remains open and accepts data until the client di which time stdin is closed and remains closed ur is restarted. If this flag is false, a container proce from stdin will never receive an EOF. Default is fa
`targetContainerName`	`string`	If set, the name of the container from PodSpec th ephemeral container targets. The ephemeral cor run in the namespaces (IPC, PID, etc) of this cor then the ephemeral container uses the namespa in the Pod spec. The container runtime must implement support fo the runtime does not support namespace targeti result of setting this field is undefined.
`terminationMessagePath`	`string`	Optional: Path at which the file to which the conta termination message will be written is mounted in container's filesystem. Message written is intend final status, such as an assertion failure messag truncated by the node if greater than 4096 bytes. message length across all containers will be limit Defaults to /dev/termination-log. Cannot be upda
`terminationMessagePolicy`	`string`	Indicate how the termination message should be will use the contents of terminationMessagePath

Property	Type	Description
		container status message on both success and f FallbackToLogsOnError will use the last chunk o output if the termination message file is empty ar exited with an error. The log output is limited to 2 lines, whichever is smaller. Defaults to File. Cann
`tty`	`boolean`	Whether this container should allocate a TTY for requires 'stdin' to be true. Default is false.
`volumeDevices`	`array`	volumeDevices is the list of block devices to be u container.
`volumeMounts`	`array`	Pod volumes to mount into the container's filesys mounts are not allowed for ephemeral containers updated.
`workingDir`	`string`	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

.spec.workloads[].template.spec.ephemeralContainers[].args

Description

Arguments to the entrypoint. The image's CMD is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e.

"$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].args[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].command

Description

Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the environment variable. Must be a C_IDENTIFIER.
`value`	`string`	Variable references $(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME)

Property	Type	Description
		syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
`valueFrom`	`object`	Source for the environment variable's value. Cannot be used if value is not empty.

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
`configMapKeyRef`	`object`	Selects a key of a ConfigMap.
`fieldRef`	`object`	Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Property	Type	Description
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
`secretKeyRef`	`object`	Selects a key of a secret in the pod's namespace

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.configMapKeyRef

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key to select.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap or its key must be defined

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.fieldRef

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.secretKeyRef

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key of the secret to select from. Must be a valid secret key.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.ephemeralContainers[].envFrom

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].envFrom[]

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
`configMapRef`	`object`	The ConfigMap to select from
`prefix`	`string`	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
`secretRef`	`object`	The Secret to select from

.spec.workloads[].template.spec.ephemeralContainers[].envFrom[].configMapRef

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap must be defined

.spec.workloads[].template.spec.ephemeralContainers[].envFrom[].secretRef

Description

The Secret to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret must be defined

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle

Description

Lifecycle is not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`postStart`	`object`	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
`preStop`	`object`	PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be

Property	Type	Description
		an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility.

Property	Type	Description
		There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.

Property	Type	Description
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when

tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.

Property	Type	Description
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru

Property	Type	Description
		pod are sent a termination signal and the ti processes are forcibly halted with a kill sigı value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceF gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root

Property	Type	Description
		('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].ports

Description

Ports are not allowed for ephemeral containers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].ports[]

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
`containerPort`	`integer`	Number of port to expose on the pod's IP address. This must be a valid port number, 0 < x < 65536.

Property	Type	Description
`hostIP`	`string`	What host IP to bind the external port to.
`hostPort`	`integer`	Number of port to expose on the host. If specified, this must be a valid port number, 0 < x < 65536. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
`name`	`string`	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
`protocol`	`string`	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].resizePolicy

Description

Resources resize policy for the container.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].resizePolicy[]

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName` `restartPolicy`

Property	Type	Description
`resourceName`	`string`	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.

Property	Type	Description
`restartPolicy`	`string`	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

.spec.workloads[].template.spec.ephemeralContainers[].resources

Description

Resources are not allowed for ephemeral containers. Ephemeral containers use spare resources already allocated to the pod.

Type

`object`

Property	Type	Description
`claims`	`array`	Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.ephemeralContainers[].resources.claims

Description

Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].resources.claims[]

Description

ResourceClaim references one entry in PodSpec.ResourceClaims.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.
`request`	`string`	Request is the name chosen for a request in the referenced claim. If empty, everything from the claim is made available, otherwise only the result of this request.

.spec.workloads[].template.spec.ephemeralContainers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.ephemeralContainers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext

Description

Optional: SecurityContext defines the security options the ephemeral container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext.

Type

`object`

Property	Type	Description
`allowPrivilegeEscalation`	`boolean`	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no_new_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1. run as Privileged 2. has CAP_SYS_ADMIN Note that this field cannot be set when spec.os.name is windows.
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.
`capabilities`	`object`	The capabilities to add/drop when running containers. Defaults to the default set of

Property	Type	Description
		capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.
`privileged`	`boolean`	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when spec.os.name is windows.
`procMount`	`string`	procMount denotes the type of proc mount to use for the containers. The default value is Default which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows.
`readOnlyRootFilesystem`	`boolean`	Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`add`	`array`	Added capabilities

Property	Type	Description
`drop`	`array`	Removed capabilities

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.add

Description

Added capabilities

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.seLinuxOptions

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.

Property	Type	Description
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.seccompProfile

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container

Property	Type	Description
		runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa ↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same

Property	Type	Description
		effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded.

Property	Type	Description
		Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the ti processes are forcibly halted with a kill sig value longer than the expected cleanup tim

Property	Type	Description
		process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceF gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to

Property	Type	Description
		explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.

Property	Type	Description
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].volumeDevices

Description

volumeDevices is the list of block devices to be used by the container.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].volumeDevices[]

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath` `name`

Property	Type	Description
`devicePath`	`string`	devicePath is the path inside of the container that the device will be mapped to.

Property	Type	Description
`name`	`string`	name must match the name of a persistentVolumeClaim in the pod

.spec.workloads[].template.spec.ephemeralContainers[].volumeMounts

Description

Pod volumes to mount into the container's filesystem. Subpath mounts are not allowed for ephemeral containers. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].volumeMounts[]

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath` `name`

Property	Type	Description
`mountPath`	`string`	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
`mountPropagation`	`string`	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. When RecursiveReadOnly is set to IfPossible or to Enabled, MountPropagation must be None or unspecified (which defaults to None).
`name`	`string`	This must match the Name of a Volume.
`readOnly`	`boolean`	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
`recursiveReadOnly`	`string`	RecursiveReadOnly specifies whether read-only mounts should be handled recursively. If ReadOnly is false, this field has no meaning and must be unspecified. If ReadOnly is true, and this field is set to Disabled, the mount is not made recursively read-only. If this field is set to IfPossible, the mount is made recursively read-only, if it is supported by the container runtime. If this field is set to Enabled, the mount is made recursively read-only if it is supported by the container runtime, otherwise the pod will not be started and an error will be generated to indicate the reason. If this field is set to IfPossible or Enabled, MountPropagation must be set to None (or be

Property	Type	Description
		unspecified, which defaults to None). If this field is not specified, it is treated as an equivalent of Disabled.
`subPath`	`string`	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
`subPathExpr`	`string`	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references $(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

.spec.workloads[].template.spec.hostAliases

Description

HostAliases is an optional list of hosts and IPs that will be injected into the pod's hosts file if specified.

Type

`array`

.spec.workloads[].template.spec.hostAliases[]

Description

HostAlias holds the mapping between IP and hostnames that will be injected as an entry in the pod's hosts file.

Type

`object`

Required

`ip`

Property	Type	Description
`hostnames`	`array`	Hostnames for the above IP address.
`ip`	`string`	IP address of the host file entry.

.spec.workloads[].template.spec.hostAliases[].hostnames

Description

Hostnames for the above IP address.

Type

`array`

.spec.workloads[].template.spec.hostAliases[].hostnames[]

Type

`string`

.spec.workloads[].template.spec.imagePullSecrets

Description

ImagePullSecrets is an optional list of references to secrets in the same namespace to use for pulling any of the images used by this PodSpec. If specified, these secrets will be passed to individual puller implementations for them to use. More info:

https://kubernetes.io/docs/concepts/containers/images#specifying-imagepullsecrets-on-a-pod

Type

`array`

.spec.workloads[].template.spec.imagePullSecrets[]

Description

LocalObjectReference contains enough information to let you locate the referenced object inside the same namespace.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.initContainers

Description

List of initialization containers belonging to the pod. Init containers are executed in order prior to containers being started. If any init container fails, the pod is considered to have failed and is handled according to its restartPolicy. The name for an init container or normal container must be unique among all containers. Init containers may not have Lifecycle actions, Readiness probes, Liveness probes, or Startup probes. The resourceRequirements of an init container are taken into account during scheduling by finding the highest request/limit for each resource type, and then using the max of of that value or the sum of the normal containers. Limits are applied to init containers in a similar fashion. Init

containers cannot currently be added or removed. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/init-containers/

Type

`array`

.spec.workloads[].template.spec.initContainers[]

Description

A single application container that you want to run within a pod.

Type

`object`

Required

`name`

Property	Type	Description
`args`	`array`	Arguments to the entrypoint. The container imag if this is not provided. Variable references $(VAR expanded using the container's environment. If a be resolved, the reference in the input string will Double $$ are reduced to a single $, which allow the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" string literal "$(VAR_NAME)". Escaped reference expanded, regardless of whether the variable ex Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`command`	`array`	Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provi references $(VAR_NAME) are expanded using tl environment. If a variable cannot be resolved, th

Property	Type	Description
		the input string will be unchanged. Double $$ are single $, which allows for escaping the $(VAR_N i.e. "$$(VAR_NAME)" will produce the string liter "$(VAR_NAME)". Escaped references will never regardless of whether the variable exists or not. updated. More info: https://kubernetes.io/docs/ta application/define-command-argument-container command-in-a-shell ↗
`env`	`array`	List of environment variables to set in the contair updated.
`envFrom`	`array`	List of sources to populate environment variables container. The keys defined within a source mus C_IDENTIFIER. All invalid keys will be reported a when the container is starting. When a key exists sources, the value associated with the last sourc precedence. Values defined by an Env with a du take precedence. Cannot be updated.
`image`	`string`	Container image name. More info: https://kubernetes.io/docs/concepts/containers/ir field is optional to allow higher level config mana default or override container images in workload Deployments and StatefulSets.
`imagePullPolicy`	`string`	Image pull policy. One of Always, Never, IfNotPre to Always if :latest tag is specified, or IfNotPrese Cannot be updated. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/containers/ir images ↗
`lifecycle`	`object`	Actions that the management system should tak container lifecycle events. Cannot be updated.
`livenessProbe`	`object`	Periodic probe of container liveness. Container w the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`name`	`string`	Name of the container specified as a DNS_LABE container in a pod must have a unique name (DN Cannot be updated.
`ports`	`array`	List of ports to expose from the container. Not sp here DOES NOT prevent that port from being ex which is listening on the default "0.0.0.0" address container will be accessible from the network. M array with strategic merge patch may corrupt the information See https://github.com/kubernetes/kubernetes/issues Cannot be updated.
`readinessProbe`	`object`	Periodic probe of container service readiness. C removed from service endpoints if the probe fails updated. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`resizePolicy`	`array`	Resources resize policy for the container.
`resources`	`object`	Compute Resources required by this container. C updated. More info: https://kubernetes.io/docs/concepts/configuratior resources-containers/ ↗
`restartPolicy`	`string`	RestartPolicy defines the restart behavior of indiv in a pod. This field may only be set for init contai only allowed value is "Always". For non-init conta this field is not specified, the restart behavior is d Pod's restart policy and the container type. Settir RestartPolicy as "Always" for the init container w following effect: this init container will be continua exit until all regular containers have terminated. C containers have completed, all init containers wit "Always" will be shut down. This lifecycle differs f containers and is often referred to as a "sidecar" Although this init container still starts in the init co sequence, it does not wait for the container to co proceeding to the next init container. Instead, the container starts immediately after this init contair after any startupProbe has successfully complete
`securityContext`	`object`	SecurityContext defines the security options the be run with. If set, the fields of SecurityContext o equivalent fields of PodSecurityContext. More inf

Property	Type	Description
		https://kubernetes.io/docs/tasks/configure-pod-container/security-context/ ↗
`startupProbe`	`object`	StartupProbe indicates that the Pod has success If specified, no other probes are executed until th successfully. If this probe fails, the Pod will be re the livenessProbe failed. This can be used to pro probe parameters at the beginning of a Pod's life might take a long time to load data or warm a ca steady-state operation. This cannot be updated. https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`stdin`	`boolean`	Whether this container should allocate a buffer fo container runtime. If this is not set, reads from st container will always result in EOF. Default is fals
`stdinOnce`	`boolean`	Whether the container runtime should close the s after it has been opened by a single attach. Whe the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is oper start, is empty until the first client attaches to stdi remains open and accepts data until the client di which time stdin is closed and remains closed ur is restarted. If this flag is false, a container proce from stdin will never receive an EOF. Default is fa
`terminationMessagePath`	`string`	Optional: Path at which the file to which the conta termination message will be written is mounted i container's filesystem. Message written is intend

Property	Type	Description
		final status, such as an assertion failure messag truncated by the node if greater than 4096 bytes. message length across all containers will be limit Defaults to /dev/termination-log. Cannot be upda
`terminationMessagePolicy`	`string`	Indicate how the termination message should be will use the contents of terminationMessagePath container status message on both success and f FallbackToLogsOnError will use the last chunk o output if the termination message file is empty ar exited with an error. The log output is limited to 2 lines, whichever is smaller. Defaults to File. Cann
`tty`	`boolean`	Whether this container should allocate a TTY for requires 'stdin' to be true. Default is false.
`volumeDevices`	`array`	volumeDevices is the list of block devices to be u container.
`volumeMounts`	`array`	Pod volumes to mount into the container's filesys updated.
`workingDir`	`string`	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

.spec.workloads[].template.spec.initContainers[].args

Description

Arguments to the entrypoint. The container image's CMD is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.initContainers[].args[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].command

Description

Entrypoint array. Not executed within a shell. The container image's ENTRYPOINT is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.initContainers[].command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the environment variable. Must be a C_IDENTIFIER.
`value`	`string`	Variable references $(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input

Property	Type	Description
		string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
`valueFrom`	`object`	Source for the environment variable's value. Cannot be used if value is not empty.

.spec.workloads[].template.spec.initContainers[].env[].valueFrom

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
`configMapKeyRef`	`object`	Selects a key of a ConfigMap.
`fieldRef`	`object`	Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Property	Type	Description
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
`secretKeyRef`	`object`	Selects a key of a secret in the pod's namespace

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.configMapKeyRef

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key to select.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap or its key must be defined

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.fieldRef

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.secretKeyRef

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key of the secret to select from. Must be a valid secret key.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.initContainers[].envFrom

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].envFrom[]

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
`configMapRef`	`object`	The ConfigMap to select from
`prefix`	`string`	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
`secretRef`	`object`	The Secret to select from

.spec.workloads[].template.spec.initContainers[].envFrom[].configMapRef

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

Property	Type	Description
`optional`	`boolean`	Specify whether the ConfigMap must be defined

.spec.workloads[].template.spec.initContainers[].envFrom[].secretRef

Description

The Secret to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret must be defined

.spec.workloads[].template.spec.initContainers[].lifecycle

Description

Actions that the management system should take in response to container lifecycle events. Cannot be updated.

Type

`object`

Property	Type	Description
`postStart`	`object`	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
`preStop`	`object`	PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the

container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.

Property	Type	Description
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when

tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].livenessProbe

Description

Periodic probe of container liveness. Container will be restarted if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.

Property	Type	Description
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru

Property	Type	Description
		pod are sent a termination signal and the ti processes are forcibly halted with a kill sigı value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceF gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.initContainers[].livenessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root

Property	Type	Description
		('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].livenessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.initContainers[].livenessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].livenessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].livenessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].ports

Description

List of ports to expose from the container. Not specifying a port here DOES NOT prevent that port from being exposed. Any port which is listening on the default "0.0.0.0" address inside a container will be accessible from the network. Modifying this array with strategic merge patch may corrupt the data. For more information See https://github.com/kubernetes/kubernetes/issues/108255. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].ports[]

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
`containerPort`	`integer`	Number of port to expose on the pod's IP address. This must be a valid port number, 0 < x < 65536.

Property	Type	Description
`hostIP`	`string`	What host IP to bind the external port to.
`hostPort`	`integer`	Number of port to expose on the host. If specified, this must be a valid port number, 0 < x < 65536. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
`name`	`string`	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
`protocol`	`string`	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

.spec.workloads[].template.spec.initContainers[].readinessProbe

Description

Periodic probe of container service readiness. Container will be removed from service endpoints if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.initContainers[].readinesProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].readinesProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].readinesProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].readinesProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.initContainers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].readinesProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].readinesProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].readinessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].resizePolicy

Description

Resources resize policy for the container.

Type

`array`

.spec.workloads[].template.spec.initContainers[].resizePolicy[]

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName` `restartPolicy`

Property	Type	Description
`resourceName`	`string`	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.

Property	Type	Description
`restartPolicy`	`string`	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

.spec.workloads[].template.spec.initContainers[].resources

Description

Compute Resources required by this container. Cannot be updated. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

Property	Type	Description
`claims`	`array`	Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.initContainers[].resources.claims

Description

Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].resources.claims[]

Description

ResourceClaim references one entry in PodSpec.ResourceClaims.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.
`request`	`string`	Request is the name chosen for a request in the referenced claim. If empty, everything from the claim is made available, otherwise only the result of this request.

.spec.workloads[].template.spec.initContainers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.initContainers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.initContainers[].securityContext

Description

SecurityContext defines the security options the container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext. More info: https://kubernetes.io/docs/tasks/configure-pod-container/security-context/

Type

`object`

Property	Type	Description
`allowPrivilegeEscalation`	`boolean`	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no_new_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1. run as Privileged 2. has CAP_SYS_ADMIN Note that this field cannot be set when spec.os.name is windows.
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.
`capabilities`	`object`	The capabilities to add/drop when running containers. Defaults to the default set of

Property	Type	Description
		capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.
`privileged`	`boolean`	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when spec.os.name is windows.
`procMount`	`string`	procMount denotes the type of proc mount to use for the containers. The default value is Default which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows.
`readOnlyRootFilesystem`	`boolean`	Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.initContainers[].securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`add`	`array`	Added capabilities

Property	Type	Description
`drop`	`array`	Removed capabilities

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.add

Description

Added capabilities

Type

`array`

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.initContainers[].securityContext.seLinuxOptions

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.

Property	Type	Description
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.initContainers[].securityContext.seccompProfile

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container

Property	Type	Description
		runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.initContainers[].securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same

Property	Type	Description
		effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.initContainers[].startupProbe

Description

StartupProbe indicates that the Pod has successfully initialized. If specified, no other probes are executed until this completes successfully. If this probe fails, the Pod will be restarted, just as if the livenessProbe failed. This can be used to provide different probe parameters at the beginning of a Pod's lifecycle, when it might take a long time to load data or warm a cache, than during steady-state operation. This cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.initContainers[].startupProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].startupProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].startupProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].startupProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.initContainers[].startupProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].startupProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].volumeDevices

Description

volumeDevices is the list of block devices to be used by the container.

Type

`array`

.spec.workloads[].template.spec.initContainers[].volumeDevices[]

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath` `name`

Property	Type	Description
`devicePath`	`string`	devicePath is the path inside of the container that the device will be mapped to.

Property	Type	Description
`name`	`string`	name must match the name of a persistentVolumeClaim in the pod

.spec.workloads[].template.spec.initContainers[].volumeMounts

Description

Pod volumes to mount into the container's filesystem. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].volumeMounts[]

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath` `name`

Property	Type	Description
`mountPath`	`string`	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
`mountPropagation`	`string`	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. When RecursiveReadOnly is set to IfPossible or to Enabled, MountPropagation must be None or unspecified (which defaults to None).
`name`	`string`	This must match the Name of a Volume.
`readOnly`	`boolean`	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
`recursiveReadOnly`	`string`	RecursiveReadOnly specifies whether read-only mounts should be handled recursively. If ReadOnly is false, this field has no meaning and must be unspecified. If ReadOnly is true, and this field is set to Disabled, the mount is not made recursively read-only. If this field is set to IfPossible, the mount is made recursively read-only, if it is supported by the container runtime. If this field is set to Enabled, the mount is made recursively read-only if it is supported by the container runtime, otherwise the pod will not be started and an error will be generated to indicate the reason. If this field is set to IfPossible or Enabled, MountPropagation must be set to None (or be

Property	Type	Description
		unspecified, which defaults to None). If this field is not specified, it is treated as an equivalent of Disabled.
`subPath`	`string`	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
`subPathExpr`	`string`	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references $(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

.spec.workloads[].template.spec.nodeSelector

Description

NodeSelector is a selector which must be true for the pod to fit on a node. Selector which must match a node's labels for the pod to be scheduled on that node. More info: https://kubernetes.io/docs/concepts/configuration/assign-pod-node/

Type

`object`

.spec.workloads[].template.spec.os

Description

Specifies the OS of the containers in the pod. Some pod and container fields are restricted if this is set. If the OS field is set to linux, the following fields must be unset: - securityContext.windowsOptions If the OS field is set to windows, following fields must be unset: - spec.hostPID - spec.hostIPC - spec.hostUsers - spec.securityContext.appArmorProfile - spec.securityContext.seLinuxOptions - spec.securityContext.seccompProfile - spec.securityContext.fsGroup - spec.securityContext.fsGroupChangePolicy - spec.securityContext.sysctls - spec.shareProcessNamespace - spec.securityContext.runAsUser - spec.securityContext.runAsGroup - spec.securityContext.supplementalGroups - spec.securityContext.supplementalGroupsPolicy - spec.containers[*].securityContext.appArmorProfile - spec.containers[*].securityContext.seLinuxOptions - spec.containers[*].securityContext.seccompProfile - spec.containers[*].securityContext.capabilities - spec.containers[*].securityContext.readOnlyRootFilesystem - spec.containers[*].securityContext.privileged - spec.containers[*].securityContext.allowPrivilegeEscalation - spec.containers[*].securityContext.procMount - spec.containers[*].securityContext.runAsUser - spec.containers[*].securityContext.runAsGroup

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name is the name of the operating system. The currently supported values are linux and windows. Additional value may be defined in future and can be one of: https://github.com/opencontainers/runtime-spec/blob/master/config.md#platform-specific-configuration ↗ Clients should expect to handle additional values and treat unrecognized values in this field as os: null

.spec.workloads[].template.spec.overhead

Description

Overhead represents the resource overhead associated with running a pod for a given RuntimeClass. This field will be autopopulated at admission time by the RuntimeClass admission controller. If the RuntimeClass admission controller is enabled, overhead must not be set in Pod create requests. The RuntimeClass admission controller will reject Pod create requests which have the overhead already set. If RuntimeClass is configured and selected in the PodSpec, Overhead will be set to the value defined in the corresponding RuntimeClass, otherwise it will remain unset and treated as zero. More info: https://git.k8s.io/enhancements/keps/sig-node/688-pod-overhead/README.md

Type

`object`

.spec.workloads[].template.spec.readinessGates

Description

If specified, all readiness gates will be evaluated for pod readiness. A pod is ready when all its containers are ready AND all conditions specified in the readiness gates have status equal to "True" More info: https://git.k8s.io/enhancements/keps/sig-network/580-pod-readiness-gates

Type

`array`

.spec.workloads[].template.spec.readinessGates[]

Description

PodReadinessGate contains the reference to a pod condition

Type

`object`

Required

`conditionType`

Property	Type	Description
`conditionType`	`string`	ConditionType refers to a condition in the pod's condition list with matching type.

.spec.workloads[].template.spec.resourceClaims

Description

ResourceClaims defines which ResourceClaims must be allocated and reserved before the Pod is allowed to start. The resources will be made available to those containers which consume them by name. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable.

Type

`array`

.spec.workloads[].template.spec.resourceClaims[]

Description

PodResourceClaim references exactly one ResourceClaim, either directly or by naming a ResourceClaimTemplate which is then turned into a ResourceClaim for the pod. It adds a name to it that uniquely identifies the ResourceClaim inside the Pod. Containers that need access to the ResourceClaim reference it with this name.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name uniquely identifies this resource claim inside the pod. This must be a

Property	Type	Description
		DNS_LABEL.
`resourceClaimName`	`string`	ResourceClaimName is the name of a ResourceClaim object in the same namespace as this pod. Exactly one of ResourceClaimName and ResourceClaimTemplateName must be set.
`resourceClaimTemplateName`	`string`	ResourceClaimTemplateName is the name of a ResourceClaimTemplate object in the same namespace as this pod. The template will be used to create a new ResourceClaim, which will be bound to this pod. When this pod is deleted, the ResourceClaim will also be deleted. The pod name and resource name, along with a generated component, will be used to form a unique name for the ResourceClaim, which will be recorded in pod.status.resourceClaimStatuses. This field is immutable and no changes will be made to the corresponding ResourceClaim by the control plane after creating the ResourceClaim. Exactly one of ResourceClaimName and ResourceClaimTemplateName must be set.

.spec.workloads[].template.spec.schedulingGates

Description

SchedulingGates is an opaque list of values that if specified will block scheduling the pod. If schedulingGates is not empty, the pod will stay in the SchedulingGated state and the scheduler will not attempt to schedule the pod. SchedulingGates can only be set at pod creation time, and be removed only afterwards.

Type

`array`

.spec.workloads[].template.spec.schedulingGates[]

Description

PodSchedulingGate is associated to a Pod to guard its scheduling.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the scheduling gate. Each scheduling gate must have a unique name field.

.spec.workloads[].template.spec.securityContext

Description

SecurityContext holds pod-level security attributes and common container settings. Optional: Defaults to empty. See type description for default values of each field.

Type

`object`

Property	Type	Description
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.
`fsGroup`	`integer`	A special supplemental group that applies to all containers in a pod. Some volume types allow the Kubelet to change the ownership of that volume to be owned by the pod: 1. The owning GID will be the FSGroup 2. The setgid bit is set (new files created in the volume will be owned by FSGroup) 3. The permission bits are OR'd with rw-rw---- If unset, the Kubelet will not modify the ownership and permissions of any volume. Note that this field cannot be set when spec.os.name is windows.
`fsGroupChangePolicy`	`string`	fsGroupChangePolicy defines behavior of changing ownership and permission of the volume before being exposed inside Pod. This field will only apply to volume types which support fsGroup based ownership(and permissions). It will have no effect on ephemeral volume types such as: secret, configmaps and emptydir. Valid values are "OnRootMismatch" and

Property	Type	Description
		"Always". If not specified, "Always" is used. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that

Property	Type	Description
		container. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to all containers. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.
`supplementalGroups`	`array`	A list of groups applied to the first process run in each container, in addition to the container's primary GID and fsGroup (if specified). If the SupplementalGroupsPolicy feature is enabled, the supplementalGroupsPolicy field determines whether these are in addition to or instead of any group memberships defined in the container image. If unspecified, no additional groups are added, though group memberships defined in the container image may still be used, depending on the

Property	Type	Description
		supplementalGroupsPolicy field. Note that this field cannot be set when spec.os.name is windows.
`supplementalGroupsPolicy`	`string`	Defines how supplemental groups of the first container processes are calculated. Valid values are "Merge" and "Strict". If not specified, "Merge" is used. (Alpha) Using the field requires the SupplementalGroupsPolicy feature gate to be enabled and the container runtime must implement support for this feature. Note that this field cannot be set when spec.os.name is windows.
`sysctls`	`array`	Sysctls hold a list of namespaced sysctls used for the pod. Pods with unsupported sysctls (by the container runtime) might fail to launch. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options within a container's SecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.securityContext.seLinuxOptions

Description

The SELinux context to be applied to all containers. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in SecurityContext.

If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.securityContext.seccompProfile

Description

The seccomp options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.securityContext.supplementalGroups

Description

A list of groups applied to the first process run in each container, in addition to the container's primary GID and fsGroup (if specified). If the SupplementalGroupsPolicy feature is enabled, the supplementalGroupsPolicy field determines whether these are in addition to or instead of any group memberships defined in the container image. If unspecified, no additional groups are added, though group memberships defined in the container image may still be used, depending on the supplementalGroupsPolicy field. Note that this field cannot be set when spec.os.name is windows.

Type

`array`

.spec.workloads[].template.spec.securityContext.supplementalGroups[]

Type

`integer`

.spec.workloads[].template.spec.securityContext.sysctls

Description

Sysctls hold a list of namespaced sysctls used for the pod. Pods with unsupported sysctls (by the container runtime) might fail to launch. Note that this field cannot be set when spec.os.name is windows.

Type

`array`

.spec.workloads[].template.spec.securityContext.sysctls[]

Description

Sysctl defines a kernel parameter to be set

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	Name of a property to set
`value`	`string`	Value of a property to set

.spec.workloads[].template.spec.securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options within a container's SecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.

Property	Type	Description
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.tolerations

Description

If specified, the pod's tolerations.

Type

`array`

.spec.workloads[].template.spec.tolerations[]

Description

The pod this Toleration is attached to tolerates any taint that matches the triple <key,value,effect> using the matching operator <operator>.

Type

`object`

Property	Type	Description
`effect`	`string`	Effect indicates the taint effect to match. Empty means match all taint effects. When specified, allowed values are NoSchedule, PreferNoSchedule and NoExecute.
`key`	`string`	Key is the taint key that the toleration applies to. Empty means match all taint keys. If the key is empty, operator must be Exists; this combination means to match all values and all keys.
`operator`	`string`	Operator represents a key's relationship to the value. Valid operators are Exists and Equal. Defaults to Equal. Exists is equivalent to wildcard for value, so that a pod can tolerate all taints of a particular category.
`tolerationSeconds`	`integer`	TolerationSeconds represents the period of time the toleration (which must be of effect NoExecute, otherwise this field is ignored) tolerates the taint. By default, it is not set, which means tolerate the taint forever (do not evict). Zero and negative values will be treated as 0 (evict immediately) by the system.
`value`	`string`	Value is the taint value the toleration matches to. If the operator is Exists, the value should be empty, otherwise just a regular string.

.spec.workloads[].template.spec.topologySpreadConstraints

Description

TopologySpreadConstraints describes how a group of pods ought to spread across topology domains. Scheduler will schedule pods in a way which abides by the constraints. All topologySpreadConstraints are ANDed.

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[]

Description

TopologySpreadConstraint specifies how to spread matching pods among the given topology.

Type

`object`

Required

`maxSkew` `topologyKey` `whenUnsatisfiable`

Property	Type	Description
`labelSelector`	`object`	LabelSelector is used to find matching pods. Pods that match this label selector are counted to determine the number of pods in their corresponding topology domain.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select the pods over which spreading will be calculated. The keys are used to lookup values

Property	Type	Description
		from the incoming pod labels, those key-value labels are ANDed with labelSelector to select the group of existing pods over which spreading will be calculated for the incoming pod. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. MatchLabelKeys cannot be set when LabelSelector isn't set. Keys that don't exist in the incoming pod labels will be ignored. A null or empty list means only match against labelSelector. This is a beta field and requires the MatchLabelKeysInPodTopologySpread feature gate to be enabled (enabled by default).
`maxSkew`	`integer`	MaxSkew describes the degree to which pods may be unevenly distributed. When `whenUnsatisfiable=DoNotSchedule`, it is the maximum permitted difference between the number of matching pods in the target topology and the global minimum. The global minimum is the minimum number of matching pods in an eligible domain or zero if the number of eligible domains is less than MinDomains. For example, in a 3-zone cluster, MaxSkew is set to 1, and pods with the same labelSelector spread as 2/2/1: In this case, the global minimum is 1. | zone1 | zone2 | zone3 | | P P | P P | P | • if MaxSkew is 1, incoming pod can only be scheduled to zone3 to become 2/2/2; scheduling it onto zone1(zone2) would make the ActualSkew(3-1) on zone1(zone2) violate MaxSkew(1).

Property	Type	Description
		• if MaxSkew is 2, incoming pod can be scheduled onto any zone. When `whenUnsatisfiable=ScheduleAnyway`, it is used to give higher precedence to topologies that satisfy it. It's a required field. Default value is 1 and 0 is not allowed.

Property	Type	Description
`minDomains`	`integer`	MinDomains indicates a minimum number of eligible domains. When the number of eligible domains with matching topology keys is less than minDomains, Pod Topology Spread treats "global minimum" as 0, and then the calculation of Skew is performed. And when the number of eligible domains with matching topology keys equals or greater than minDomains, this value has no effect on scheduling. As a result, when the number of eligible domains is less than minDomains, scheduler won't schedule more than maxSkew Pods to those domains. If value is nil, the constraint behaves as if MinDomains is equal to 1. Valid values are integers greater than 0. When value is not nil, WhenUnsatisfiable must be DoNotSchedule. For example, in a 3-zone cluster, MaxSkew is set to 2, MinDomains is set to 5 and pods with the same labelSelector spread as 2/2/2: | zone1 | zone2 | zone3 | | P P | P P | P P | The number of domains is less than 5(MinDomains), so "global minimum" is treated as 0. In this situation, new pod with the same labelSelector cannot be scheduled, because computed skew will be 3(3 - 0) if new Pod is scheduled to any of the three zones, it will violate MaxSkew.
`nodeAffinityPolicy`	`string`	NodeAffinityPolicy indicates how we will treat Pod's nodeAffinity/nodeSelector when calculating pod topology spread skew. Options are:

Property	Type	Description
		• Honor: only nodes matching nodeAffinity/nodeSelector are included in the calculations. • Ignore: nodeAffinity/nodeSelector are ignored. All nodes are included in the calculations. If this value is nil, the behavior is equivalent to the Honor policy. This is a beta-level feature default enabled by the NodeInclusionPolicyInPodTopologySpread feature flag.
`nodeTaintsPolicy`	`string`	NodeTaintsPolicy indicates how we will treat node taints when calculating pod topology spread skew. Options are: • Honor: nodes without taints, along with tainted nodes for which the incoming pod has a toleration, are included. • Ignore: node taints are ignored. All nodes are included. If this value is nil, the behavior is equivalent to the Ignore policy. This is a beta-level feature default enabled by the NodeInclusionPolicyInPodTopologySpread feature flag.
`topologyKey`	`string`	TopologyKey is the key of node labels. Nodes that have a label with this key and identical values are considered to be in the same topology. We consider each <key, value> as a "bucket", and try to put balanced number of pods into each bucket.

Property	Type	Description
		We define a domain as a particular instance of a topology. Also, we define an eligible domain as a domain whose nodes meet the requirements of nodeAffinityPolicy and nodeTaintsPolicy. e.g. If TopologyKey is "kubernetes.io/hostname", each Node is a domain of that topology. And, if TopologyKey is "topology.kubernetes.io/zone", each zone is a domain of that topology. It's a required field.
`whenUnsatisfiable`	`string`	WhenUnsatisfiable indicates how to deal with a pod if it doesn't satisfy the spread constraint. • DoNotSchedule (default) tells the scheduler not to schedule it. • ScheduleAnyway tells the scheduler to schedule the pod in any location, but giving higher precedence to topologies that would help reduce the skew. A constraint is considered "Unsatisfiable" for an incoming pod if and only if every possible node assignment for that pod would violate "MaxSkew" on some topology. For example, in a 3-zone cluster, MaxSkew is set to 1, and pods with the same labelSelector spread as 3/1/1: | zone1 | zone2 | zone3 | | P P P | P | P | If WhenUnsatisfiable is set to DoNotSchedule, incoming pod can only be scheduled to zone2(zone3) to become 3/2/1(3/1/2) as ActualSkew(2-1) on zone2(zone3) satisfies MaxSkew(1). In other words, the cluster can still be imbalanced, but scheduler won't make it *more* imbalanced. It's a required field.

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector

Description

LabelSelector is used to find matching pods. Pods that match this label selector are counted to determine the number of pods in their corresponding topology domain.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.topologySpreadConstraints[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select the pods over which spreading will be calculated. The keys are used to lookup values from the incoming pod labels, those key-value labels are ANDed with labelSelector to select the group of existing pods over which spreading will be calculated for the incoming pod. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. MatchLabelKeys cannot be set when LabelSelector isn't set. Keys that don't exist in the incoming pod labels will be ignored. A null or empty list means only match against labelSelector. This is a beta field and requires the MatchLabelKeysInPodTopologySpread feature gate to be enabled (enabled by default).

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[].matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.volumes

Description

List of volumes that can be mounted by containers belonging to the pod. More info: https://kubernetes.io/docs/concepts/storage/volumes

Type

`array`

.spec.workloads[].template.spec.volumes[]

Description

Volume represents a named volume in a pod that may be accessed by any container in the pod.

Type

`object`

Required

`name`

Property	Type	Description
`awsElasticBlockStore`	`object`	awsElasticBlockStore represents an AWS Disk reso a kubelet's host machine and then exposed to the p https://kubernetes.io/docs/concepts/storage/volume ↗

Property	Type	Description
`azureDisk`	`object`	azureDisk represents an Azure Data Disk mount on mount to the pod.
`azureFile`	`object`	azureFile represents an Azure File Service mount or mount to the pod.
`cephfs`	`object`	cephFS represents a Ceph FS mount on the host tha lifetime
`cinder`	`object`	cinder represents a cinder volume attached and mou machine. More info: https://examples.k8s.io/mysql-c ↗
`configMap`	`object`	configMap represents a configMap that should popu
`csi`	`object`	csi (Container Storage Interface) represents epheme handled by certain external CSI drivers (Beta feature
`downwardAPI`	`object`	downwardAPI represents downward API about the p populate this volume

Property	Type	Description
`emptyDir`	`object`	emptyDir represents a temporary directory that shar More info: https://kubernetes.io/docs/concepts/stora ↗
`ephemeral`	`object`	ephemeral represents a volume that is handled by a The volume's lifecycle is tied to the pod that defines before the pod starts, and deleted when the pod is r Use this if: a) the volume is only needed while the p normal volumes like restoring from snapshot or capa needed, c) the storage driver is specified through a s the storage driver supports dynamic volume provisio PersistentVolumeClaim (see EphemeralVolumeSou information on the connection between this volume t PersistentVolumeClaim). Use PersistentVolumeClaim or one of the vendor-sp volumes that persist for longer than the lifecycle of a Use CSI for light-weight local ephemeral volumes if t meant to be used that way - see the documentation information. A pod can use both types of ephemeral volumes and at the same time.
`fc`	`object`	fc represents a Fibre Channel resource that is attach machine and then exposed to the pod.

Property	Type	Description
`flexVolume`	`object`	flexVolume represents a generic volume resource th provisioned/attached using an exec based plugin.
`flocker`	`object`	flocker represents a Flocker volume attached to a ku This depends on the Flocker control service being ru
`gcePersistentDisk`	`object`	gcePersistentDisk represents a GCE Disk resource kubelet's host machine and then exposed to the pod https://kubernetes.io/docs/concepts/storage/volumes
`gitRepo`	`object`	gitRepo represents a git repository at a particular rev GitRepo is deprecated. To provision a container with EmptyDir into an InitContainer that clones the repo u the EmptyDir into the Pod's container.
`glusterfs`	`object`	glusterfs represents a Glusterfs mount on the host th lifetime. More info: https://examples.k8s.io/volumes/ ↗
`hostPath`	`object`	hostPath represents a pre-existing file or directory o that is directly exposed to the container. This is gene agents or other privileged things that are allowed to Most containers will NOT need this. More info: https://kubernetes.io/docs/concepts/storage/volumes

Property	Type	Description
`image`	`object`	image represents an OCI object (a container image mounted on the kubelet's host machine. The volume startup depending on which PullPolicy value is provi • Always: the kubelet always attempts to pull the re creation will fail If the pull fails. • Never: the kubelet never pulls the reference and image or artifact. Container creation will fail if the present. • IfNotPresent: the kubelet pulls if the reference isr disk. Container creation will fail if the reference is pull fails. The volume gets re-resolved if the pod gets deleted means that new remote content will become availab failure to resolve or pull the image during pod startup from starting and may add significant latency. Failure normal volume backoff and will be reported on the p message. The types of objects that may be mounted defined by the container runtime implementation on minimum must include all valid types supported by tl field. The OCI object gets mounted in a single direct (spec.containers[*].volumeMounts.mountPath) by me *layers in the same way as for container images. The mounted read-only (ro) and non-executable files (no mounts for containers are not supported (spec.containers[*].volumeMounts.subpath). The field spec.securityContext.fsGroupChangePolicy has no type.

Property	Type	Description
`iscsi`	`object`	iscsi represents an ISCSI Disk resource that is attac machine and then exposed to the pod. More info: https://examples.k8s.io/volumes/iscsi/README.md ↗
`name`	`string`	name of the volume. Must be a DNS_LABEL and un More info: https://kubernetes.io/docs/concepts/overv objects/names/#names ↗
`nfs`	`object`	nfs represents an NFS mount on the host that share info: https://kubernetes.io/docs/concepts/storage/vol
`persistentVolumeClaim`	`object`	persistentVolumeClaimVolumeSource represents a r PersistentVolumeClaim in the same namespace. Mo https://kubernetes.io/docs/concepts/storage/persiste volumes#persistentvolumeclaims ↗
`photonPersistentDisk`	`object`	photonPersistentDisk represents a PhotonController attached and mounted on kubelets host machine
`portworxVolume`	`object`	portworxVolume represents a portworx volume attac kubelets host machine
`projected`	`object`	projected items for all in one resources secrets, conf downward API

Property	Type	Description
`quobyte`	`object`	quobyte represents a Quobyte mount on the host tha lifetime
`rbd`	`object`	rbd represents a Rados Block Device mount on the pod's lifetime. More info: https://examples.k8s.io/volumes/rbd/README.md ↗
`scaleIO`	`object`	scaleIO represents a ScaleIO persistent volume atta Kubernetes nodes.
`secret`	`object`	secret represents a secret that should populate this https://kubernetes.io/docs/concepts/storage/volumes
`storageos`	`object`	storageOS represents a StorageOS volume attache Kubernetes nodes.
`vsphereVolume`	`object`	vsphereVolume represents a vSphere volume attach kubelets host machine

.spec.workloads[].template.spec.volumes[].awsElasticBlockStore

Description

awsElasticBlockStore represents an AWS Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info:

https://kubernetes.io/docs/concepts/storage/volumes#awselasticblockstore

Type

`object`

Required

`volumeID`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type of the volume that you want to mou Ensure that the filesystem type is supported by the host operatir Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if ur More info: https://kubernetes.io/docs/concepts/storage/volumes#awselastic ↗
`partition`	`integer`	partition is the partition in the volume that you want to mount. If the default is to mount by volume name. Examples: For volume you specify the partition as "1". Similarly, the volume partition for is "0" (or you can leave the property empty).
`readOnly`	`boolean`	readOnly value true will force the readOnly setting in VolumeMo info: https://kubernetes.io/docs/concepts/storage/volumes#awselastic ↗
`volumeID`	`string`	volumeID is unique ID of the persistent disk resource in AWS (A EBS volume). More info: https://kubernetes.io/docs/concepts/storage/volumes#awselastic ↗

.spec.workloads[].template.spec.volumes[].azureDisk

Description

azureDisk represents an Azure Data Disk mount on the host and bind mount to the pod.

Type

`object`

Required

`diskName` `diskURI`

Property	Type	Description
`cachingMode`	`string`	cachingMode is the Host Caching mode: None, Read Only, Read Write.
`diskName`	`string`	diskName is the Name of the data disk in the blob storage
`diskURI`	`string`	diskURI is the URI of data disk in the blob storage
`fsType`	`string`	fsType is Filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`kind`	`string`	kind expected values are Shared: multiple blob disks per storage account Dedicated: single blob disk per storage account Managed: azure managed data disk (only in managed availability set). defaults to shared

Property	Type	Description
`readOnly`	`boolean`	readOnly Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.

.spec.workloads[].template.spec.volumes[].azureFile

Description

azureFile represents an Azure File Service mount on the host and bind mount to the pod.

Type

`object`

Required

`secretName` `shareName`

Property	Type	Description
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretName`	`string`	secretName is the name of secret that contains Azure Storage Account Name and Key
`shareName`	`string`	shareName is the azure share Name

.spec.workloads[].template.spec.volumes[].cephfs

Description

cephFS represents a Ceph FS mount on the host that shares a pod's lifetime

Type

`object`

Required

`monitors`

Property	Type	Description
`monitors`	`array`	monitors is Required: Monitors is a collection of Ceph monitors More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
`path`	`string`	path is Optional: Used as the mounted root, rather than the full Ceph tree, default is /
`readOnly`	`boolean`	readOnly is Optional: Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
`secretFile`	`string`	secretFile is Optional: SecretFile is the path to key ring for User, default is /etc/ceph/user.secret More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗

Property	Type	Description
`secretRef`	`object`	secretRef is Optional: SecretRef is reference to the authentication secret for User, default is empty. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
`user`	`string`	user is optional: User is the rados user name, default is admin More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗

.spec.workloads[].template.spec.volumes[].cephfs.monitors

Description

monitors is Required: Monitors is a collection of Ceph monitors More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it

Type

`array`

.spec.workloads[].template.spec.volumes[].cephfs.monitors[]

Type

`string`

.spec.workloads[].template.spec.volumes[].cephfs.secretRef

Description

secretRef is Optional: SecretRef is reference to the authentication secret for User, default is empty. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].cinder

Description

cinder represents a cinder volume attached and mounted on kubelets host machine. More info: https://examples.k8s.io/mysql-cinder-pd/README.md

Type

`object`

Required

`volumeID`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗
`secretRef`	`object`	secretRef is optional: points to a secret object containing parameters used to connect to OpenStack.
`volumeID`	`string`	volumeID used to identify the volume in cinder. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗

.spec.workloads[].template.spec.volumes[].cinder.secretRef

Description

secretRef is optional: points to a secret object containing parameters used to connect to OpenStack.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].configMap

Description

configMap represents a configMap that should populate this volume

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	defaultMode is optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`items`	`array`	items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified

Property	Type	Description
		paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	optional specify whether the ConfigMap or its keys must be defined

.spec.workloads[].template.spec.volumes[].configMap.items

Description

items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].configMap.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].csi

Description

csi (Container Storage Interface) represents ephemeral storage that is handled by certain external CSI drivers (Beta feature).

Type

`object`

Required

`driver`

Property	Type	Description
`driver`	`string`	driver is the name of the CSI driver that handles this volume. Consult with your admin for the correct name as registered in the cluster.
`fsType`	`string`	fsType to mount. Ex. "ext4", "xfs", "ntfs". If not provided, the empty value is passed to the associated CSI driver which will determine the default filesystem to apply.
`nodePublishSecretRef`	`object`	nodePublishSecretRef is a reference to the secret object containing sensitive information to pass to the CSI driver to complete the CSI NodePublishVolume and NodeUnpublishVolume calls. This field is optional, and may be empty if no secret is required. If the secret object contains more than one secret, all secret references are passed.
`readOnly`	`boolean`	readOnly specifies a read-only configuration for the volume. Defaults to false (read/write).

Property	Type	Description
`volumeAttributes`	`object`	volumeAttributes stores driver-specific properties that are passed to the CSI driver. Consult your driver's documentation for supported values.

.spec.workloads[].template.spec.volumes[].csi.nodePublishSecretRef

Description

nodePublishSecretRef is a reference to the secret object containing sensitive information to pass to the CSI driver to complete the CSI NodePublishVolume and NodeUnpublishVolume calls. This field is optional, and may be empty if no secret is required. If the secret object contains more than one secret, all secret references are passed.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].csi.volumeAttributes

Description

volumeAttributes stores driver-specific properties that are passed to the CSI driver. Consult your driver's documentation for supported values.

Type

`object`

.spec.workloads[].template.spec.volumes[].downwardAPI

Description

downwardAPI represents downward API about the pod that should populate this volume

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	Optional: mode bits to use on created files by default. Must be a Optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`items`	`array`	Items is a list of downward API volume file

.spec.workloads[].template.spec.volumes[].downwardAPI.items

Description

Items is a list of downward API volume file

Type

`array`

.spec.workloads[].template.spec.volumes[].downwardAPI.items[]

Description

DownwardAPIVolumeFile represents information to create the file containing the pod field

Type

`object`

Required

`path`

Property	Type	Description
`fieldRef`	`object`	Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.
`mode`	`integer`	Optional: mode bits used to set permissions on this file, must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.

Property	Type	Description
`path`	`string`	Required: Path is the relative path name of the file to be created. Must not be absolute or contain the '..' path. Must be utf-8 encoded. The first item of the relative path must not start with '..'
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

.spec.workloads[].template.spec.volumes[].downwardAPI.items[].fieldRef

Description

Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".

Property	Type	Description
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.volumes[].downwardAPI.items[].resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.volumes[].emptyDir

Description

emptyDir represents a temporary directory that shares a pod's lifetime. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir

Type

`object`

Property	Type	Description
`medium`	`string`	medium represents what type of storage medium should back this directory. The default is "" which means to use the node's default medium. Must be an empty string (default) or Memory. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir ↗
`sizeLimit`		sizeLimit is the total amount of local storage required for this EmptyDir volume. The size limit is also applicable for memory medium. The maximum usage on memory medium EmptyDir would be the minimum value between the SizeLimit specified here and the sum of memory limits of all containers in a pod. The default is nil which means that the limit is undefined. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir ↗

.spec.workloads[].template.spec.volumes[].ephemeral

Description

ephemeral represents a volume that is handled by a cluster storage driver. The volume's lifecycle is tied to the pod that defines it - it will be created before the pod starts, and deleted when the pod is removed. Use this if: a) the volume is only needed while the pod runs, b) features of normal volumes like restoring from snapshot or capacity tracking are needed, c) the storage driver is specified through a storage class, and d) the storage driver supports dynamic volume provisioning through a PersistentVolumeClaim (see

EphemeralVolumeSource for more information on the connection between this volume type and PersistentVolumeClaim). Use PersistentVolumeClaim or one of the vendor-specific APIs for volumes that persist for longer than the lifecycle of an individual pod. Use CSI for light-weight local ephemeral volumes if the CSI driver is meant to be used that way - see the documentation of the driver for more information. A pod can use both types of ephemeral volumes and persistent volumes at the same time.

Type

`object`

Property	Type	Description
`volumeClaimTemplate`	`object`	Will be used to create a stand-alone PVC to provision the volume. The pod in which this EphemeralVolumeSource is embedded will be the owner of the PVC, i.e. the PVC will be deleted together with the pod. The name of the PVC will be `<pod name>-<volume name>` where `<volume name>` is the name from the `PodSpec.Volumes` array entry. Pod validation will reject the pod if the concatenated name is not valid for a PVC (for example, too long). An existing PVC with that name that is not owned by the pod will *not* be used for the pod to avoid using an unrelated volume by mistake. Starting the pod is then blocked until the unrelated PVC is removed. If such a pre-created PVC is meant to be used by the pod, the PVC has to updated with an owner reference to the pod once the pod exists. Normally this should not be necessary, but it may be useful when manually reconstructing a broken cluster. This field is read-only and no changes will be made by Kubernetes to the PVC after it has been created.

Property	Type	Description
		Required, must not be nil.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate

Description

Will be used to create a stand-alone PVC to provision the volume. The pod in which this EphemeralVolumeSource is embedded will be the owner of the PVC, i.e. the PVC will be deleted together with the pod. The name of the PVC will be `<pod name>-<volume name>` where `<volume name>` is the name from the `PodSpec.Volumes` array entry. Pod validation will reject the pod if the concatenated name is not valid for a PVC (for example, too long). An existing PVC with that name that is not owned by the pod will *not* be used for the pod to avoid using an unrelated volume by mistake. Starting the pod is then blocked until the unrelated PVC is removed. If such a pre-created PVC is meant to be used by the pod, the PVC has to updated with an owner reference to the pod once the pod exists. Normally this should not be necessary, but it may be useful when manually reconstructing a broken cluster. This field is read-only and no changes will be made by Kubernetes to the PVC after it has been created. Required, must not be nil.

Type

`object`

Required

`spec`

Property	Type	Description
`metadata`	`ObjectMeta` ↗	May contain labels and annotations that will be copied into the PVC when creating it. No other fields are allowed and will be rejected during validation.

Property	Type	Description
`spec`	`object`	The specification for the PersistentVolumeClaim. The entire content is copied unchanged into the PVC that gets created from this template. The same fields as in a PersistentVolumeClaim are also valid here.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec

Description

The specification for the PersistentVolumeClaim. The entire content is copied unchanged into the PVC that gets created from this template. The same fields as in a PersistentVolumeClaim are also valid here.

Type

`object`

Property	Type	Description
`accessModes`	`array`	accessModes contains the desired access mod volume should have. More info: https://kubernetes.io/docs/concepts/storage/per volumes#access-modes-1 ↗
`dataSource`	`object`	dataSource field can be used to specify either: • An existing VolumeSnapshot object (snapshot.storage.k8s.io/VolumeSnapshot) • An existing PVC (PersistentVolumeClaim) If provisioner or an external controller can sup the specified data source, it will create a nev

Property	Type	Description
		volume based on the contents of the specifie source. When the AnyVolumeDataSource fe gate is enabled, dataSource contents will be to dataSourceRef, and dataSourceRef conte be copied to dataSource when dataSourceRef.namespace is not specified. namespace is specified, then dataSourceRe not be copied to dataSource.
`dataSourceRef`	`object`	dataSourceRef specifies the object from which populate the volume with data, if a non-empty v is desired. This may be any object from a non-e API group (non core object) or a PersistentVolumeClaim object. When this field i specified, volume binding will only succeed if th of the specified object matches some installed v populator or dynamic provisioner. This field will the functionality of the dataSource field and as both fields are non-empty, they must have the s value. For backwards compatibility, when name isn't specified in dataSourceRef, both fields (dataSource and dataSourceRef) will be set to t same value automatically if one of them is empt the other is non-empty. When namespace is sp in dataSourceRef, dataSource isn't set to the sa value and must be empty. There are three impo differences between dataSource and dataSourc • While dataSource only allows two specific ty objects, dataSourceRef allows any non-core as well as PersistentVolumeClaim objects. • While dataSource ignores disallowed values (dropping them), dataSourceRef preserves a

Property	Type	Description
		values, and generates an error if a disallowe value is specified. • While dataSource only allows local objects, dataSourceRef allows objects in any names (Beta) Using this field requires the AnyVolumeDataSource feature gate to be en (Alpha) Using the namespace field of dataSourceRef requires the CrossNamespaceVolumeDataSource featur to be enabled.
`resources`	`object`	resources represents the minimum resources th volume should have. If RecoverVolumeExpansionFailure feature is ena users are allowed to specify resource requireme that are lower than previous value but must still higher than capacity recorded in the status field claim. More info: https://kubernetes.io/docs/concepts/storage/per volumes#resources ↗
`selector`	`object`	selector is a label query over volumes to consid binding.
`storageClassName`	`string`	storageClassName is the name of the StorageC required by the claim. More info: https://kubernetes.io/docs/concepts/storage/per volumes#class-1 ↗

Property	Type	Description
`volumeAttributesClassName`	`string`	volumeAttributesClassName may be used to se VolumeAttributesClass used by this claim. If spe the CSI driver will create or update the volume attributes defined in the corresponding VolumeAttributesClass. This has a different pur than storageClassName, it can be changed afte claim is created. An empty string value means t VolumeAttributesClass will be applied to the cla it's not allowed to reset this field to empty string is set. If unspecified and the PersistentVolumeC unbound, the default VolumeAttributesClass wil by the persistentvolume controller if it exists. If t resource referred to by volumeAttributesClass d not exist, this PersistentVolumeClaim will be se Pending state, as reflected by the modifyVolum field, until such as a resource exists. More info: https://kubernetes.io/docs/concepts/storage/vol attributes-classes/↗ (Beta) Using this field requ the VolumeAttributesClass feature gate to be en (off by default).
`volumeMode`	`string`	volumeMode defines what type of volume is req by the claim. Value of Filesystem is implied whe included in claim spec.
`volumeName`	`string`	volumeName is the binding reference to the PersistentVolume backing this claim.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.accessModes

Description

accessModes contains the desired access modes the volume should have. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#access-modes-1

Type

`array`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.accessModes[]

Type

`string`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.dataSource

Description

dataSource field can be used to specify either: * An existing VolumeSnapshot object (snapshot.storage.k8s.io/VolumeSnapshot) * An existing PVC (PersistentVolumeClaim) If the provisioner or an external controller can support the specified data source, it will create a new volume based on the contents of the specified data source. When the AnyVolumeDataSource feature gate is enabled, dataSource contents will be copied to dataSourceRef, and dataSourceRef contents will be copied to dataSource when dataSourceRef.namespace is not specified. If the namespace is specified, then dataSourceRef will not be copied to dataSource.

Type

`object`

Required

`kind` `name`

Property	Type	Description
`apiGroup`	`string`	APIGroup is the group for the resource being referenced. If APIGroup is not specified, the specified Kind must be in the core API group. For any other third-party types, APIGroup is required.
`kind`	`string`	Kind is the type of resource being referenced
`name`	`string`	Name is the name of resource being referenced

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.dataSourceRef

Description

dataSourceRef specifies the object from which to populate the volume with data, if a non-empty volume is desired. This may be any object from a non-empty API group (non core object) or a PersistentVolumeClaim object. When this field is specified, volume binding will only succeed if the type of the specified object matches some installed volume populator or dynamic provisioner. This field will replace the functionality of the dataSource field and as such if both fields are non-empty, they must have the same value. For backwards compatibility, when namespace isn't specified in dataSourceRef, both fields (dataSource and dataSourceRef) will be set to the same value automatically if one of them is empty and the other is non-empty. When namespace is specified in dataSourceRef, dataSource isn't set to the same value and must be empty. There are three important differences between dataSource and dataSourceRef: * While dataSource only allows two specific types of objects, dataSourceRef allows any non-core object, as well as PersistentVolumeClaim objects. * While dataSource ignores disallowed values (dropping them), dataSourceRef preserves all values, and generates an error if a disallowed value is specified. * While dataSource only allows local objects, dataSourceRef allows objects in any namespaces. (Beta) Using this field requires the AnyVolumeDataSource feature gate to be enabled.

(Alpha) Using the namespace field of dataSourceRef requires the CrossNamespaceVolumeDataSource feature gate to be enabled.

Type

`object`

Required

`kind` `name`

Property	Type	Description
`apiGroup`	`string`	APIGroup is the group for the resource being referenced. If APIGroup is not specified, the specified Kind must be in the core API group. For any other third-party types, APIGroup is required.
`kind`	`string`	Kind is the type of resource being referenced
`name`	`string`	Name is the name of resource being referenced
`namespace`	`string`	Namespace is the namespace of resource being referenced Note that when a namespace is specified, a gateway.networking.k8s.io/ReferenceGrant object is required in the referent namespace to allow that namespace's owner to accept the reference. See the ReferenceGrant documentation for details. (Alpha) This field requires the CrossNamespaceVolumeDataSource feature gate to be enabled.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources

Description

resources represents the minimum resources the volume should have. If RecoverVolumeExpansionFailure feature is enabled users are allowed to specify resource requirements that are lower than previous value but must still be higher than capacity recorded in the status field of the claim. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#resources

Type

`object`

Property	Type	Description
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector

Description

selector is a label query over volumes to consider for binding.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.

Property	Type	Description
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.volumes[].fc

Description

fc represents a Fibre Channel resource that is attached to a kubelet's host machine and then exposed to the pod.

Type

`object`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`lun`	`integer`	lun is Optional: FC target lun number
`readOnly`	`boolean`	readOnly is Optional: Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in

Property	Type	Description
		VolumeMounts.
`targetWWNs`	`array`	targetWWNs is Optional: FC target worldwide names (WWNs)
`wwids`	`array`	wwids Optional: FC volume world wide identifiers (wwids) Either wwids or combination of targetWWNs and lun must be set, but not both simultaneously.

.spec.workloads[].template.spec.volumes[].fc.targetWWNs

Description

targetWWNs is Optional: FC target worldwide names (WWNs)

Type

`array`

.spec.workloads[].template.spec.volumes[].fc.targetWWNs[]

Type

`string`

.spec.workloads[].template.spec.volumes[].fc.wwids

Description

wwids Optional: FC volume world wide identifiers (wwids) Either wwids or combination of targetWWNs and lun must be set, but not both simultaneously.

Type

`array`

.spec.workloads[].template.spec.volumes[].fc.wwids[]

Type

`string`

.spec.workloads[].template.spec.volumes[].flexVolume

Description

flexVolume represents a generic volume resource that is provisioned/attached using an exec based plugin.

Type

`object`

Required

`driver`

Property	Type	Description
`driver`	`string`	driver is the name of the driver to use for this volume.
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". The default filesystem depends on FlexVolume script.
`options`	`object`	options is Optional: this field holds extra command options if any.

Property	Type	Description
`readOnly`	`boolean`	readOnly is Optional: defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretRef`	`object`	secretRef is Optional: secretRef is reference to the secret object containing sensitive information to pass to the plugin scripts. This may be empty if no secret object is specified. If the secret object contains more than one secret, all secrets are passed to the plugin scripts.

.spec.workloads[].template.spec.volumes[].flexVolume.options

Description

options is Optional: this field holds extra command options if any.

Type

`object`

.spec.workloads[].template.spec.volumes[].flexVolume.secretRef

Description

secretRef is Optional: secretRef is reference to the secret object containing sensitive information to pass to the plugin scripts. This may be empty if no secret object is specified. If the secret object contains more than one secret, all secrets are passed to the plugin scripts.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].flocker

Description

flocker represents a Flocker volume attached to a kubelet's host machine. This depends on the Flocker control service being running

Type

`object`

Property	Type	Description
`datasetName`	`string`	datasetName is Name of the dataset stored as metadata -> name on the dataset for Flocker should be considered as deprecated
`datasetUUID`	`string`	datasetUUID is the UUID of the dataset. This is unique identifier of a Flocker dataset

.spec.workloads[].template.spec.volumes[].gcePersistentDisk

Description

gcePersistentDisk represents a GCE Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersistentdisk

Type

`object`

Required

`pdName`

Property	Type	Description
`fsType`	`string`	fsType is filesystem type of the volume that you want to mount. Ensure that the filesystem type is supported by the host operatir system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "e unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗
`partition`	`integer`	partition is the partition in the volume that you want to mount. If omitted, the default is to mount by volume name. Examples: For volume /dev/sda1, you specify the partition as "1". Similarly, the partition for /dev/sda is "0" (or you can leave the property empty info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗
`pdName`	`string`	pdName is unique name of the PD resource in GCE. Used to ide the disk in GCE. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly here will force the ReadOnly setting in VolumeMounts Defaults to false. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗

.spec.workloads[].template.spec.volumes[].gitRepo

Description

gitRepo represents a git repository at a particular revision. DEPRECATED: GitRepo is deprecated. To provision a container with a git repo, mount an EmptyDir into an InitContainer that clones the repo using git, then mount the EmptyDir into the Pod's container.

Type

`object`

Required

`repository`

Property	Type	Description
`directory`	`string`	directory is the target directory name. Must not contain or start with '..'. If '.' is supplied, the volume directory will be the git repository. Otherwise, if specified, the volume will contain the git repository in the subdirectory with the given name.
`repository`	`string`	repository is the URL

Property	Type	Description
`revision`	`string`	revision is the commit hash for the specified revision.

.spec.workloads[].template.spec.volumes[].glusterfs

Description

glusterfs represents a Glusterfs mount on the host that shares a pod's lifetime. More info: https://examples.k8s.io/volumes/glusterfs/README.md

Type

`object`

Required

`endpoints` `path`

Property	Type	Description
`endpoints`	`string`	endpoints is the endpoint name that details Glusterfs topology. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗
`path`	`string`	path is the Glusterfs volume path. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly here will force the Glusterfs volume to be mounted with read-only permissions. Defaults to false. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗

.spec.workloads[].template.spec.volumes[].hostPath

Description

hostPath represents a pre-existing file or directory on the host machine that is directly exposed to the container. This is generally used for system agents or other privileged things that are allowed to see the host machine. Most containers will NOT need this. More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath

Type

`object`

Required

`path`

Property	Type	Description
`path`	`string`	path of the directory on the host. If the path is a symlink, it will follow the link to the real path. More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath ↗
`type`	`string`	type for HostPath Volume Defaults to "" More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath ↗

.spec.workloads[].template.spec.volumes[].image

Description

image represents an OCI object (a container image or artifact) pulled and mounted on the kubelet's host machine. The volume is resolved at pod startup depending on which PullPolicy value is provided: - Always: the kubelet always attempts to pull the reference. Container creation will fail If the pull fails. - Never: the kubelet never pulls the reference and only uses a local image or artifact. Container creation will fail if the reference isn't present. - IfNotPresent: the kubelet pulls if the reference isn't already present on disk. Container creation will fail if the reference isn't present and the pull fails. The volume gets re-resolved if the pod gets deleted and recreated, which means that new remote content will become available on pod recreation. A failure to resolve or pull the image during pod startup will block containers from starting and may add significant latency. Failures will be retried using normal volume backoff and will be reported on the pod reason and message. The types of objects that may be mounted by this volume are defined by the container runtime implementation on a host machine and at minimum must include all valid types supported by the container image field. The OCI object gets mounted in a single directory (spec.containers[*].volumeMounts.mountPath) by merging the manifest layers in the same way as for container images. The volume will be mounted read-only (ro) and non-executable files (noexec). Sub path mounts for containers are not supported (spec.containers[*].volumeMounts.subpath). The field spec.securityContext.fsGroupChangePolicy has no effect on this volume type.

Type

`object`

Property	Type	Description
`pullPolicy`	`string`	Policy for pulling OCI objects. Possible values are: Always: the kubelet always attempts to pull the reference. Container creation will fail If the pull fails. Never: the kubelet never pulls the reference and only uses a local image or artifact. Container creation will fail if the reference isn't present. IfNotPresent: the kubelet pulls if the reference isn't already present on disk. Container creation will fail if the reference isn't present and the pull fails. Defaults to Always if :latest tag is specified, or IfNotPresent otherwise.
`reference`	`string`	Required: Image or artifact reference to be used. Behaves in the same way as pod.spec.containers[*].image. Pull secrets will be assembled in the same way as for the container image by looking up node credentials, SA image pull secrets, and pod spec image pull secrets. More info: https://kubernetes.io/docs/concepts/containers/images ↗ This field is optional to allow higher level config management to default or override container images in workload controllers like Deployments and StatefulSets.

.spec.workloads[].template.spec.volumes[].iscsi

Description

iscsi represents an ISCSI Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info: https://examples.k8s.io/volumes/iscsi/README.md

Type

`object`

Required

`iqn` `lun` `targetPortal`

Property	Type	Description
`chapAuthDiscovery`	`boolean`	chapAuthDiscovery defines whether support iSCSI Discovery CHAP authentication
`chapAuthSession`	`boolean`	chapAuthSession defines whether support iSCSI Sessior CHAP authentication
`fsType`	`string`	fsType is the filesystem type of the volume that you want to mount. Tip: Ensure that the filesystem type is supporte by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#isc ↗
`initiatorName`	`string`	initiatorName is the custom iSCSI Initiator Name. If initiatorName is specified with iscsiInterface simultaneously, new iSCSI interface : will be created for the connection.
`iqn`	`string`	iqn is the target iSCSI Qualified Name.
`iscsiInterface`	`string`	iscsiInterface is the interface Name that uses an iSCSI transport. Defaults to 'default' (tcp).
`lun`	`integer`	lun represents iSCSI Target Lun number.

Property	Type	Description
`portals`	`array`	portals is the iSCSI Target Portal List. The portal is either an IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).
`readOnly`	`boolean`	readOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false.
`secretRef`	`object`	secretRef is the CHAP Secret for iSCSI target and initiato authentication
`targetPortal`	`string`	targetPortal is iSCSI Target Portal. The Portal is either ar IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).

.spec.workloads[].template.spec.volumes[].iscsi.portals

Description

portals is the iSCSI Target Portal List. The portal is either an IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).

Type

`array`

.spec.workloads[].template.spec.volumes[].iscsi.portals[]

Type

`string`

.spec.workloads[].template.spec.volumes[].iscsi.secretRef

Description

secretRef is the CHAP Secret for iSCSI target and initiator authentication

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].nfs

Description

nfs represents an NFS mount on the host that shares a pod's lifetime More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs

Type

`object`

Required

`path` `server`

Property	Type	Description
`path`	`string`	path that is exported by the NFS server. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly here will force the NFS export to be mounted with read-only permissions. Defaults to false. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗
`server`	`string`	server is the hostname or IP address of the NFS server. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗

.spec.workloads[].template.spec.volumes[].persistentVolumeClaim

Description

persistentVolumeClaimVolumeSource represents a reference to a PersistentVolumeClaim in the same namespace. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#persistentvolumeclaims

Type

`object`

Required

`claimName`

Property	Type	Description
`claimName`	`string`	claimName is the name of a PersistentVolumeClaim in the same namespace as the pod using this volume. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#persistentvolumeclaims ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly Will force the ReadOnly setting in VolumeMounts. Default false.

.spec.workloads[].template.spec.volumes[].photonPersistentDisk

Description

photonPersistentDisk represents a PhotonController persistent disk attached and mounted on kubelets host machine

Type

`object`

Required

`pdID`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`pdID`	`string`	pdID is the ID that identifies Photon Controller persistent disk

.spec.workloads[].template.spec.volumes[].portworxVolume

Description

portworxVolume represents a portworx volume attached and mounted on kubelets host machine

Type

`object`

Required

`volumeID`

Property	Type	Description
`fsType`	`string`	fSType represents the filesystem type to mount Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs". Implicitly inferred to be "ext4" if unspecified.
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`volumeID`	`string`	volumeID uniquely identifies a Portworx volume

.spec.workloads[].template.spec.volumes[].projected

Description

projected items for all in one resources secrets, configmaps, and downward API

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	defaultMode are the mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`sources`	`array`	sources is the list of volume projections. Each entry in this list handles one source.

.spec.workloads[].template.spec.volumes[].projected.sources

Description

sources is the list of volume projections. Each entry in this list handles one source.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[]

Description

Projection that may be projected along with other supported volume types. Exactly one of these fields must be set.

Type

`object`

Property	Type	Description
`clusterTrustBundle`	`object`	ClusterTrustBundle allows a pod to access the `.spec.trustBundle` field of ClusterTrustBundle objects in an auto-updating file. Alpha, gated by the ClusterTrustBundleProjection feature gate. ClusterTrustBundle objects can either be selected by name, or by the combination of signer name and a label selector. Kubelet performs aggressive normalization of the PEM contents written into the pod filesystem. Esoteric PEM features such as inter-block comments and block headers are stripped. Certificates are deduplicated. The ordering of certificates within the file is arbitrary, and Kubelet may change the order over time.
`configMap`	`object`	configMap information about the configMap data to project
`downwardAPI`	`object`	downwardAPI information about the downwardAPI data to project
`secret`	`object`	secret information about the secret data to project

Property	Type	Description
`serviceAccountToken`	`object`	serviceAccountToken is information about the serviceAccountToken data to project

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle

Description

ClusterTrustBundle allows a pod to access the `.spec.trustBundle` field of ClusterTrustBundle objects in an auto-updating file. Alpha, gated by the ClusterTrustBundleProjection feature gate. ClusterTrustBundle objects can either be selected by name, or by the combination of signer name and a label selector. Kubelet performs aggressive normalization of the PEM contents written into the pod filesystem. Esoteric PEM features such as inter-block comments and block headers are stripped. Certificates are deduplicated. The ordering of certificates within the file is arbitrary, and Kubelet may change the order over time.

Type

`object`

Required

`path`

Property	Type	Description
`labelSelector`	`object`	Select all ClusterTrustBundles that match this label selector. Only has effect if signerName is set. Mutually-exclusive with name. If unset, interpreted as "match nothing". If set but empty, interpreted as "match everything".

Property	Type	Description
`name`	`string`	Select a single ClusterTrustBundle by object name. Mutually-exclusive with signerName and labelSelector.
`optional`	`boolean`	If true, don't block pod startup if the referenced ClusterTrustBundle(s) aren't available. If using name, then the named ClusterTrustBundle is allowed not to exist. If using signerName, then the combination of signerName and labelSelector is allowed to match zero ClusterTrustBundles.
`path`	`string`	Relative path from the volume root to write the bundle.
`signerName`	`string`	Select all ClusterTrustBundles that match this signer name. Mutually-exclusive with name. The contents of all selected ClusterTrustBundles will be unified and deduplicated.

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector

Description

Select all ClusterTrustBundles that match this label selector. Only has effect if signerName is set. Mutually-exclusive with name. If unset, interpreted as "match nothing". If set but empty, interpreted as "match everything".

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.volumes[].projected.sources[].configMap

Description

configMap information about the configMap data to project

Type

`object`

Property	Type	Description
`items`	`array`	items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	optional specify whether the ConfigMap or its keys must be defined

.spec.workloads[].template.spec.volumes[].projected.sources[].configMap.items

Description

items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will

error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].configMap.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.

Property	Type	Description
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI

Description

downwardAPI information about the downwardAPI data to project

Type

`object`

Property	Type	Description
`items`	`array`	Items is a list of DownwardAPIVolume file

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items

Description

Items is a list of DownwardAPIVolume file

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items[]

Description

DownwardAPIVolumeFile represents information to create the file containing the pod field

Type

`object`

Required

`path`

Property	Type	Description
`fieldRef`	`object`	Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.
`mode`	`integer`	Optional: mode bits used to set permissions on this file, must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	Required: Path is the relative path name of the file to be created. Must not be absolute or contain the '..' path. Must be utf-8 encoded. The first item of the relative path must not start with '..'
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory,

Property	Type	Description
		requests.cpu and requests.memory) are currently supported.

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items[].fieldRef

Description

Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items[].resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.volumes[].projected.sources[].secret

Description

secret information about the secret data to project

Type

`object`

Property	Type	Description
`items`	`array`	items if unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified

Property	Type	Description
		paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	optional field specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.volumes[].projected.sources[].secret.items

Description

items if unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].secret.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].projected.sources[].serviceAccountToken

Description

serviceAccountToken is information about the serviceAccountToken data to project

Type

`object`

Required

`path`

Property	Type	Description
`audience`	`string`	audience is the intended audience of the token. A recipient of a token must identify itself with an identifier specified in the audience of the token, and otherwise should reject the token. The audience defaults to the identifier of the apiserver.
`expirationSeconds`	`integer`	expirationSeconds is the requested duration of validity of the service account token. As the token approaches expiration, the kubelet volume plugin will proactively rotate the service account token. The kubelet will start trying to rotate the token if the token is older than 80 percent of its time to live or if the token is older than 24 hours.Defaults to 1 hour and must be at least 10 minutes.
`path`	`string`	path is the path relative to the mount point of the file to project the token into.

.spec.workloads[].template.spec.volumes[].quobyte

Description

quobyte represents a Quobyte mount on the host that shares a pod's lifetime

Type

`object`

Required

`registry` `volume`

Property	Type	Description
`group`	`string`	group to map volume access to Default is no group
`readOnly`	`boolean`	readOnly here will force the Quobyte volume to be mounted with read-only permissions. Defaults to false.
`registry`	`string`	registry represents a single or multiple Quobyte Registry services specified as a string as host:port pair (multiple entries are separated with commas) which acts as the central registry for volumes
`tenant`	`string`	tenant owning the given Quobyte volume in the Backend Used with dynamically provisioned Quobyte volumes, value is set by the plugin
`user`	`string`	user to map volume access to Defaults to serivceaccount user
`volume`	`string`	volume is a string that references an already created Quobyte volume by name.

.spec.workloads[].template.spec.volumes[].rbd

Description

rbd represents a Rados Block Device mount on the host that shares a pod's lifetime. More info: https://examples.k8s.io/volumes/rbd/README.md

Type

`object`

Required

`image` `monitors`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type of the volume that you want to mount. Tip: Ensure that the filesystem type is supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#rbd ↗
`image`	`string`	image is the rados image name. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`keyring`	`string`	keyring is the path to key ring for RBDUser. Default is /etc/ceph/keyring. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗

Property	Type	Description
`monitors`	`array`	monitors is a collection of Ceph monitors. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`pool`	`string`	pool is the rados pool name. Default is rbd. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`readOnly`	`boolean`	readOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`secretRef`	`object`	secretRef is name of the authentication secret for RBDUser. If provided overrides keyring. Default is nil. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`user`	`string`	user is the rados user name. Default is admin. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗

.spec.workloads[].template.spec.volumes[].rbd.monitors

Description

monitors is a collection of Ceph monitors. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it

Type

`array`

.spec.workloads[].template.spec.volumes[].rbd.monitors[]

Type

`string`

.spec.workloads[].template.spec.volumes[].rbd.secretRef

Description

secretRef is name of the authentication secret for RBDUser. If provided overrides keyring. Default is nil. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].scaleIO

Description

scaleIO represents a ScaleIO persistent volume attached and mounted on Kubernetes nodes.

Type

`object`

Required

`gateway` `secretRef` `system`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Default is "xfs".
`gateway`	`string`	gateway is the host address of the ScaleIO API Gateway.
`protectionDomain`	`string`	protectionDomain is the name of the ScaleIO Protection Domain for the configured storage.
`readOnly`	`boolean`	readOnly Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretRef`	`object`	secretRef references to the secret for ScaleIO user and other sensitive information. If this is not provided, Login operation will fail.
`sslEnabled`	`boolean`	sslEnabled Flag enable/disable SSL communication with Gateway, default false

Property	Type	Description
`storageMode`	`string`	storageMode indicates whether the storage for a volume should be ThickProvisioned or ThinProvisioned. Default is ThinProvisioned.
`storagePool`	`string`	storagePool is the ScaleIO Storage Pool associated with the protection domain.
`system`	`string`	system is the name of the storage system as configured in ScaleIO.
`volumeName`	`string`	volumeName is the name of a volume already created in the ScaleIO system that is associated with this volume source.

.spec.workloads[].template.spec.volumes[].scaleIO.secretRef

Description

secretRef references to the secret for ScaleIO user and other sensitive information. If this is not provided, Login operation will fail.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty.

Property	Type	Description
		Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].secret

Description

secret represents a secret that should populate this volume. More info: https://kubernetes.io/docs/concepts/storage/volumes#secret

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	defaultMode is Optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`items`	`array`	items If unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume

Property	Type	Description
		setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`optional`	`boolean`	optional field specify whether the Secret or its keys must be defined
`secretName`	`string`	secretName is the name of the secret in the pod's namespace to use. More info: https://kubernetes.io/docs/concepts/storage/volumes#secret ↗

.spec.workloads[].template.spec.volumes[].secret.items

Description

items If unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].secret.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].storageos

Description

storageOS represents a StorageOS volume attached and mounted on Kubernetes nodes.

Type

`object`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretRef`	`object`	secretRef specifies the secret to use for obtaining the StorageOS API credentials. If not specified, default values will be attempted.
`volumeName`	`string`	volumeName is the human-readable name of the StorageOS volume. Volume names are only unique within a namespace.
`volumeNamespace`	`string`	volumeNamespace specifies the scope of the volume within StorageOS. If no namespace is specified then the Pod's namespace will be used. This allows the Kubernetes name scoping to be mirrored within StorageOS for tighter integration. Set VolumeName to any name to override the default behaviour. Set to "default" if you are not using namespaces within StorageOS. Namespaces that do not pre-exist within StorageOS will be created.

.spec.workloads[].template.spec.volumes[].storageos.secretRef

Description

secretRef specifies the secret to use for obtaining the StorageOS API credentials. If not specified, default values will be attempted.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].vsphereVolume

Description

vsphereVolume represents a vSphere volume attached and mounted on kubelets host machine

Type

`object`

Required

`volumePath`

Property	Type	Description
`fsType`	`string`	fsType is filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`storagePolicyID`	`string`	storagePolicyID is the storage Policy Based Management (SPBM) profile ID associated with the StoragePolicyName.
`storagePolicyName`	`string`	storagePolicyName is the storage Policy Based Management (SPBM) profile name.
`volumePath`	`string`	volumePath is the path that identifies vSphere volume vmdk

.status

Description

ComponentStatus defines the observed state of Connector

Type

`object`

Property	Type	Description
`annotations`	`object`	Annotations is additional Status fields for the Resource to save some additional State as well as convey more information to the user. This is

Property	Type	Description
		roughly akin to Annotations on any k8s resource, just the reconciler conveying richer information outwards.
`conditions`	`array`	Conditions the latest available observations of a resource's current state.
`observedGeneration`	`integer`	ObservedGeneration is the 'Generation' of the Service that was last processed by the controller.

.status.annotations

Description

Annotations is additional Status fields for the Resource to save some additional State as well as convey more information to the user. This is roughly akin to Annotations on any k8s resource, just the reconciler conveying richer information outwards.

Type

`object`

.status.conditions

Description

Conditions the latest available observations of a resource's current state.

Type

`array`

.status.conditions[]

Description

Condition defines a readiness condition for a Knative resource. See: https://github.com/kubernetes/community/blob/master/contributors/devel/sig-architecture/api-conventions.md#typical-status-properties

Type

`object`

Required

`status` `type`

Property	Type	Description
`lastTransitionTime`	`string`	LastTransitionTime is the last time the condition transitioned from one status to another. We use VolatileTime in place of metav1.Time to exclude this from creating equality.Semantic differences (all other things held constant).
`message`	`string`	A human readable message indicating details about the transition.
`reason`	`string`	The reason for the condition's last transition.
`severity`	`string`	Severity with which to treat failures of this type of condition. When this is not specified, it defaults to Error.
`status`	`string`	Status of the condition, one of True, False, Unknown.

Property	Type	Description
`type`	`string`	Type of condition.

API Endpoints

The following API endpoints are available:

- `/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorscores`
  - `DELETE`: delete collection of ConnectorsCore
  - `GET`: list objects of kind ConnectorsCore
  - `POST`: create a new ConnectorsCore
- `/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorscores/{name}`
  - `DELETE`: delete the specified ConnectorsCore
  - `GET`: read the specified ConnectorsCore
  - `PATCH`: partially update the specified ConnectorsCore
  - `PUT`: replace the specified ConnectorsCore
- `/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorscores/{name}/status`
  - `GET`: read status of the specified ConnectorsCore
  - `PATCH`: partially update status of the specified ConnectorsCore
  - `PUT`: replace status of the specified ConnectorsCore

/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorscores

HTTP method

`DELETE`

Description

delete collection of ConnectorsCore

HTTP responses

HTTP code	Response body
200 - OK	`Status↗` schema
401 - Unauthorized	Empty

HTTP method

`GET`

Description

list objects of kind ConnectorsCore

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsCoreList` schema
401 - Unauthorized	Empty

HTTP method

`POST`

Description

create a new ConnectorsCore

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further

Parameter	Type	Description
		processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
`body`	`ConnectorsCore` schema	`application/json` formatted

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsCore` schema
201 - Created	`ConnectorsCore` schema
202 - Accepted	`ConnectorsCore` schema
401 - Unauthorized	Empty

/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorscores/{name}

HTTP method

`DELETE`

Description

delete the specified ConnectorsCore

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

HTTP responses

HTTP code	Response body
200 - OK	`Status↗` schema
202 - Accepted	`Status↗` schema
401 - Unauthorized	Empty

HTTP method

`GET`

Description

read the specified ConnectorsCore

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsCore` schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update the specified ConnectorsCore

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsCore` schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace the specified ConnectorsCore

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

Parameter	Type	Description
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
`body`	`ConnectorsCore` schema	`application/json` formatted

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsCore` schema
201 - Created	`ConnectorsCore` schema
401 - Unauthorized	Empty

/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorscores/{name}/status

HTTP method

`GET`

Description

read status of the specified ConnectorsCore

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsCore` schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update status of the specified ConnectorsCore

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields.

Parameter	Type	Description
		This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsCore` schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace status of the specified ConnectorsCore

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object,

Parameter	Type	Description
		and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
`body`	`ConnectorsCore` schema	`application/json` formatted

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsCore` schema
201 - Created	`ConnectorsCore` schema
401 - Unauthorized	Empty

ConnectorsGit [operator.connectors.alauda.io/v1alpha1]

Description

ConnectorsGit is the Schema for the ConnectorsGits API.

Type

`object`

Specification

Property	Type	Description
`apiVersion`	`string`	APIVersion defines the versioned schema of this representation of an object. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources ↗
`kind`	`string`	Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint the client submits requests to. Cannot be updated. In CamelCase. More info:

Property	Type	Description
		https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds ↗
`metadata`	`ObjectMeta` ↗	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
`spec`	`object`	ConnectorsGitSpec defines the desired state of ConnectorsGit.
`status`	`object`	ComponentStatus defines the observed state of Connector

.spec

Description

ConnectorsGitSpec defines the desired state of ConnectorsGit.

Type

`object`

Property	Type	Description
`additionalManifests`	`string`	A means to specify the additional manifests to install, eg: http://example.com/manifests.yaml ↗
`annotations`	`object`	Annotations overrides labels for the namespace and its template.

Property	Type	Description
`labels`	`object`	Labels overrides labels for the namespace and its template.
`registry`	`string`	Registry overrides the default registry for the workloads. The registry is used to replace the prefix of the image. the image reference format is /:@.
`workloads`	`array`	Workloads overrides workloads configurations such as resources and replicas.

.spec.annotations

Description

Annotations overrides labels for the namespace and its template.

Type

`object`

.spec.labels

Description

Labels overrides labels for the namespace and its template.

Type

`object`

.spec.workloads

Description

Workloads overrides workloads configurations such as resources and replicas.

Type

`array`

.spec.workloads[]

Description

WorkloadOverride overrides the workload configurations.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name is the name of the deployment to override.
`replicas`	`integer`	Number of desired pods. This is a pointer to distinguish between explicit zero and not specified. Defaults to 1.
`template`	`object`	Template describes the pods that will be created. The only allowed template.spec.restartPolicy value is "Always".

.spec.workloads[].template

Description

Template describes the pods that will be created. The only allowed template.spec.restartPolicy value is "Always".

Type

`object`

Property	Type	Description
`metadata`	`ObjectMeta` ↗	Standard object's metadata. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#metadata ↗
`spec`	`object`	Specification of the desired behavior of the pod. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#spec-and-status ↗

.spec.workloads[].template.spec

Description

Specification of the desired behavior of the pod. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#spec-and-status

Type

`object`

Required

`containers`

Property	Type	Description
`activeDeadlineSeconds`	`integer`	Optional duration in seconds the pod may StartTime before the system will actively tr containers. Value must be a positive intege

Property	Type	Description
`affinity`	`object`	If specified, the pod's scheduling constrain
`automountServiceAccountToken`	`boolean`	AutomountServiceAccountToken indicates be automatically mounted.
`containers`	`array`	List of containers belonging to the pod. Co removed. There must be at least one conta
`dnsConfig`	`object`	Specifies the DNS parameters of a pod. Pa to the generated DNS configuration based
`dnsPolicy`	`string`	Set DNS policy for the pod. Defaults to "Cl 'ClusterFirstWithHostNet', 'ClusterFirst', 'De in DNSConfig will be merged with the polic DNS options set along with hostNetwork, y to 'ClusterFirstWithHostNet'.
`enableServiceLinks`	`boolean`	EnableServiceLinks indicates whether info injected into pod's environment variables, r Optional: Defaults to true.

Property	Type	Description
`ephemeralContainers`	`array`	List of ephemeral containers run in this poc an existing pod to perform user-initiated ac cannot be specified when creating a pod, a the pod spec. In order to add an ephemera pod's ephemeralcontainers subresource.
`hostAliases`	`array`	HostAliases is an optional list of hosts and hosts file if specified.
`hostIPC`	`boolean`	Use the host's ipc namespace. Optional: D
`hostNetwork`	`boolean`	Host networking requested for this pod. Us option is set, the ports that will be used mu
`hostPID`	`boolean`	Use the host's pid namespace. Optional: D
`hostUsers`	`boolean`	Use the host's user namespace. Optional: present, the pod will be run in the host use needs a feature only available to the host u kernel module with CAP_SYS_MODULE. V created for the pod. Setting false is useful f vulnerabilities even allowing users to run th having root privileges on the host. This fiel servers that enable the UserNamespacesS

Property	Type	Description
`hostname`	`string`	Specifies the hostname of the Pod If not sp to a system-defined value.
`imagePullSecrets`	`array`	ImagePullSecrets is an optional list of refer namespace to use for pulling any of the im these secrets will be passed to individual p More info: https://kubernetes.io/docs/conce imagepullsecrets-on-a-pod ↗
`initContainers`	`array`	List of initialization containers belonging to order prior to containers being started. If a considered to have failed and is handled a for an init container or normal container mu containers may not have Lifecycle actions, Startup probes. The resourceRequirement account during scheduling by finding the hi type, and then using the max of of that valu Limits are applied to init containers in a sim currently be added or removed. Cannot be https://kubernetes.io/docs/concepts/worklo
`nodeName`	`string`	NodeName indicates in which node this po candidate for scheduling by the scheduler field is set, the kubelet for this node becom pod. This field should not be used to expre on a specific node. https://kubernetes.io/dc pod-node/#nodename ↗

Property	Type	Description
`nodeSelector`	`object`	NodeSelector is a selector which must be t which must match a node's labels for the p info: https://kubernetes.io/docs/concepts/c
`os`	`object`	Specifies the OS of the containers in the p restricted if this is set. If the OS field is set to linux, the following f securityContext.windowsOptions If the OS field is set to windows, following f • spec.hostPID • spec.hostIPC • spec.hostUsers • spec.securityContext.appArmorProfile • spec.securityContext.seLinuxOptions • spec.securityContext.seccompProfile • spec.securityContext.fsGroup • spec.securityContext.fsGroupChangeP • spec.securityContext.sysctls • spec.shareProcessNamespace • spec.securityContext.runAsUser • spec.securityContext.runAsGroup • spec.securityContext.supplementalGrou • spec.securityContext.supplementalGrou • spec.containers[*].securityContext.appA • spec.containers[*].securityContext.seLi • spec.containers[*].securityContext.secc

Property	Type	Description
		• spec.containers[*].securityContext.capa • spec.containers[*].securityContext.read • spec.containers[*].securityContext.privil • spec.containers[*].securityContext.allov • spec.containers[*].securityContext.proc • spec.containers[*].securityContext.runA • spec.containers[*].securityContext.runA
`overhead`	`object`	Overhead represents the resource overhea given RuntimeClass. This field will be auto RuntimeClass admission controller. If the F enabled, overhead must not be set in Pod admission controller will reject Pod create already set. If RuntimeClass is configured will be set to the value defined in the corre remain unset and treated as zero. More inf https://git.k8s.io/enhancements/keps/sig-n
`preemptionPolicy`	`string`	PreemptionPolicy is the Policy for preempt Never, PreemptLowerPriority. Defaults to F
`priority`	`integer`	The priority value. Various system compon the pod. When Priority Admission Controlle setting this field. The admission controller PriorityClassName. The higher the value, t
`priorityClassName`	`string`	If specified, indicates the pod's priority. "sy critical" are two special keywords which inc

Property	Type	Description
		former being the highest priority. Any other PriorityClass object with that name. If not s or zero if there is no default.
`readinessGates`	`array`	If specified, all readiness gates will be eval when all its containers are ready AND all c gates have status equal to "True" More info https://git.k8s.io/enhancements/keps/sig-n
`resourceClaims`	`array`	ResourceClaims defines which ResourceC before the Pod is allowed to start. The reso containers which consume them by name. This is an alpha field and requires enablin feature gate. This field is immutable.
`restartPolicy`	`string`	Restart policy for all containers within the p some contexts, only a subset of those valu More info: https://kubernetes.io/docs/conce lifecycle/#restart-policy ↗
`runtimeClassName`	`string`	RuntimeClassName refers to a RuntimeCla which should be used to run this pod. If no named class, the pod will not be run. If uns will be used, which is an implicit class with default runtime handler. More info: https://g node/585-runtime-class ↗

Property	Type	Description
`schedulerName`	`string`	If specified, the pod will be dispatched by s pod will be dispatched by default schedule
`schedulingGates`	`array`	SchedulingGates is an opaque list of value the pod. If schedulingGates is not empty, tl state and the scheduler will not attempt to SchedulingGates can only be set at pod cr afterwards.
`securityContext`	`object`	SecurityContext holds pod-level security at settings. Optional: Defaults to empty. See t each field.
`serviceAccount`	`string`	DeprecatedServiceAccount is a deprecate Deprecated: Use serviceAccountName ins
`serviceAccountName`	`string`	ServiceAccountName is the name of the S More info: https://kubernetes.io/docs/tasks service-account/ ↗

Property	Type	Description
`setHostnameAsFQDN`	`boolean`	If true the pod's hostname will be configure leaf name (the default). In Linux containers hostname field of the kernel (the nodenam containers, this means setting the registry HKEY_LOCAL_MACHINE\SYSTEM\Curre to FQDN. If a pod does not have FQDN, th
`shareProcessNamespace`	`boolean`	Share a single process namespace betwee this is set containers will be able to view ar containers in the same pod, and the first pr assigned PID 1. HostPID and ShareProces Optional: Default to false.
`subdomain`	`string`	If specified, the fully qualified Pod hostnam pod will not have a domainname at all.
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need decreased in delete request. Value must b indicates stop immediately via the kill signa value is nil, the default grace period will be duration in seconds after the processes ru signal and the time when the processes ar this value longer than the expected cleanu seconds.
`tolerations`	`array`	If specified, the pod's tolerations.

Property	Type	Description
`topologySpreadConstraints`	`array`	TopologySpreadConstraints describes how across topology domains. Scheduler will sc the constraints. All topologySpreadConstra
`volumes`	`array`	List of volumes that can be mounted by co info: https://kubernetes.io/docs/concepts/st

.spec.workloads[].template.spec.affinity

Description

If specified, the pod's scheduling constraints

Type

`object`

Property	Type	Description
`nodeAffinity`	`object`	Describes node affinity scheduling rules for the pod.
`podAffinity`	`object`	Describes pod affinity scheduling rules (e.g. co-locate this pod in the same node, zone, etc. as some other pod(s)).
`podAntiAffinity`	`object`	Describes pod anti-affinity scheduling rules (e.g. avoid putting this pod in the same node, zone, etc. as some other pod(s)).

.spec.workloads[].template.spec.affinity.nodeAffinity

Description

Describes node affinity scheduling rules for the pod.

Type

`object`

Property	Type	Description
`preferredDuringSchedulingIgnoredDuringExecution`	`array`	The scheduler will pr to schedule pods to nodes that satisfy the affinity expressions specified by this field, it may choose a node violates one or more the expressions. The node that is most preferred is the one v the greatest sum of weights, i.e. for each node that meets all o scheduling requireme (resource request, requiredDuringSched affinity expressions, e compute a sum by iterating through the elements of this field adding "weight" to the sum if the node matc the corresponding matchExpressions; th node(s) with the high

Property	Type	Description
		sum are the most preferred.
`requiredDuringSchedulingIgnoredDuringExecution`	`object`	If the affinity requirem specified by this field not met at scheduling time, the pod will not scheduled onto the n If the affinity requirem specified by this field cease to be met at sc point during pod execution (e.g. due tc update), the system r or may not try to eventually evict the p from its node.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node matches the corresponding matchExpressions; the node(s) with the highest sum are the most preferred.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

An empty preferred scheduling term matches all objects with implicit weight 0 (i.e. it's a no-op). A null preferred scheduling term matches no objects (i.e. is also a no-op).

Type

`object`

Required

`preference` `weight`

Property	Type	Description
`preference`	`object`	A node selector term, associated with the corresponding weight.
`weight`	`integer`	Weight associated with matching the corresponding nodeSelectorTerm, in the range 1-100.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference

Description

A node selector term, associated with the corresponding weight.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	A list of node selector requirements by node's labels.
`matchFields`	`array`	A list of node selector requirements by node's fields.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions

Description

A list of node selector requirements by node's labels.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preferenc

e.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields

Description

A list of node selector requirements by node's fields.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.

Property	Type	Description
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to an update), the system may or may not try to eventually evict the pod from its node.

Type

`object`

Required

`nodeSelectorTerms`

Property	Type	Description
`nodeSelectorTerms`	`array`	Required. A list of node selector terms. The terms are ORed.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms

Description

Required. A list of node selector terms. The terms are ORed.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelect

orTerms[]

Description

A null or empty node selector term matches no objects. The requirements of them are ANDed. The TopologySelectorTerm type implements a subset of the NodeSelectorTerm.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	A list of node selector requirements by node's labels.
`matchFields`	`array`	A list of node selector requirements by node's fields.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions

Description

A list of node selector requirements by node's labels.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields

Description

A list of node selector requirements by node's fields.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelect

orTerms[].matchFields[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity

Description

Describes pod affinity scheduling rules (e.g. co-locate this pod in the same node, zone, etc. as some other pod(s)).

Type

`object`

Property	Type	Description
`preferredDuringSchedulingIgnoredDuringExecution`	`array`	The scheduler will pr to schedule pods to nodes that satisfy the affinity expressions specified by this field, it may choose a node violates one or more the expressions. The node that is most preferred is the one v the greatest sum of weights, i.e. for each node that meets all o scheduling requireme (resource request, requiredDuringSched affinity expressions, e compute a sum by iterating through the elements of this field

Property	Type	Description
		adding "weight" to the sum if the node has p which matches the corresponding podAffinityTerm; the node(s) with the high sum are the most preferred.
`requiredDuringSchedulingIgnoredDuringExecution`	`array`	If the affinity requirem specified by this field not met at scheduling time, the pod will not scheduled onto the n If the affinity requirem specified by this field cease to be met at so point during pod execution (e.g. due to pod label update), the system may or may n try to eventually evict pod from its node. Wh there are multiple elements, the lists of nodes corresponding each podAffinityTerm intersected, i.e. all ter must be satisfied.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node has pods which matches the corresponding podAffinityTerm; the node(s) with the highest sum are the most preferred.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

The weights of all of the matched WeightedPodAffinityTerm fields are added per-node to find the most preferred node(s)

Type

`object`

Required

`podAffinityTerm` `weight`

Property	Type	Description
`podAffinityTerm`	`object`	Required. A pod affinity term, associated with the corresponding weight.

Property	Type	Description
`weight`	`integer`	weight associated with matching the corresponding podAffinityTerm, in the range 1-100.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm

Description

Required. A pod affinity term, associated with the corresponding weight.

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod

Property	Type	Description
		labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Property	Type	Description
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinit

yTerm.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinit

yTerm.namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to a pod label update), the system may or may not try to eventually evict the pod from its node. When there are multiple elements, the lists of nodes corresponding to each podAffinityTerm are intersected, i.e. all terms must be satisfied.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[]

Description

Defines a set of pods (namely those matching the labelSelector relative to the given namespace(s)) that this pod should be co-located (affinity) or not co-located (anti-affinity) with, where co-located is defined as running on a node whose value of the label with key <topologyKey> matches that of any node on which a pod of the set of pods is running

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Property	Type	Description
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Property	Type	Description
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.

Property	Type	Description
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchL

abelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespac

eSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity

Description

Describes pod anti-affinity scheduling rules (e.g. avoid putting this pod in the same node, zone, etc. as some other pod(s)).

Type

`object`

Property	Type	Description
`preferredDuringSchedulingIgnoredDuringExecution`	`array`	The scheduler will pr to schedule pods to nodes that satisfy the anti-affinity expressio specified by this field, it may choose a node violates one or more the expressions. The node that is most preferred is the one v the greatest sum of weights, i.e. for each node that meets all o scheduling requireme (resource request, requiredDuringSched anti-affinity expressio etc.), compute a sum iterating through the elements of this field adding "weight" to the sum if the node has p

Property	Type	Description
		which matches the corresponding podAffinityTerm; the node(s) with the high sum are the most preferred.
`requiredDuringSchedulingIgnoredDuringExecution`	`array`	If the anti-affinity requirements specifie this field are not met scheduling time, the p will not be scheduled the node. If the anti-affinity requirements specified by this field cease to be met at sc point during pod execution (e.g. due to pod label update), the system may or may n try to eventually evict pod from its node. Wh there are multiple elements, the lists of nodes corresponding each podAffinityTerm intersected, i.e. all ter must be satisfied.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the anti-affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling anti-affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node has pods which matches the corresponding podAffinityTerm; the node(s) with the highest sum are the most preferred.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

The weights of all of the matched WeightedPodAffinityTerm fields are added per-node to find the most preferred node(s)

Type

`object`

Required

`podAffinityTerm` `weight`

Property	Type	Description
`podAffinityTerm`	`object`	Required. A pod affinity term, associated with the corresponding weight.
`weight`	`integer`	weight associated with matching the corresponding podAffinityTerm, in the range 1-100.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm

Description

Required. A pod affinity term, associated with the corresponding weight.

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Property	Type	Description
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Property	Type	Description
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAf

finityTerm.namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAf

finityTerm.namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the anti-affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the anti-affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to a pod label update), the system may or may not try to eventually evict the pod from its node. When there are multiple elements, the lists of nodes corresponding to each podAffinityTerm are intersected, i.e. all terms must be satisfied.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[]

Description

Defines a set of pods (namely those matching the labelSelector relative to the given namespace(s)) that this pod should be co-located (affinity) or not co-located (anti-affinity) with, where co-located is defined as running on a node whose value of the label with key <topologyKey> matches that of any node on which a pod of the set of pods is running

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Property	Type	Description
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Property	Type	Description
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.

Property	Type	Description
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismat

chLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].names

paceSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces[]

Type

`string`

.spec.workloads[].template.spec.containers

Description

List of containers belonging to the pod. Containers cannot currently be added or removed. There must be at least one container in a Pod. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[]

Description

A single application container that you want to run within a pod.

Type

`object`

Required

`name`

Property	Type	Description
`args`	`array`	Arguments to the entrypoint. The container imag if this is not provided. Variable references $(VAR expanded using the container's environment. If a be resolved, the reference in the input string will Double $$ are reduced to a single $, which allow the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" string literal "$(VAR_NAME)". Escaped reference expanded, regardless of whether the variable ex Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`command`	`array`	Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provi references $(VAR_NAME) are expanded using tl environment. If a variable cannot be resolved, th the input string will be unchanged. Double $$ are single $, which allows for escaping the $(VAR_N i.e. "$$(VAR_NAME)" will produce the string liter "$(VAR_NAME)". Escaped references will never regardless of whether the variable exists or not. updated. More info: https://kubernetes.io/docs/ta application/define-command-argument-container command-in-a-shell ↗
`env`	`array`	List of environment variables to set in the contair updated.
`envFrom`	`array`	List of sources to populate environment variables container. The keys defined within a source mus

Property	Type	Description
		C_IDENTIFIER. All invalid keys will be reported a when the container is starting. When a key exists sources, the value associated with the last sourc precedence. Values defined by an Env with a du take precedence. Cannot be updated.
`image`	`string`	Container image name. More info: https://kubernetes.io/docs/concepts/containers/ir field is optional to allow higher level config mana default or override container images in workload Deployments and StatefulSets.
`imagePullPolicy`	`string`	Image pull policy. One of Always, Never, IfNotPre to Always if :latest tag is specified, or IfNotPrese Cannot be updated. More info: https://kubernetes.io/docs/concepts/containers/ir images ↗
`lifecycle`	`object`	Actions that the management system should tak container lifecycle events. Cannot be updated.
`livenessProbe`	`object`	Periodic probe of container liveness. Container w the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`name`	`string`	Name of the container specified as a DNS_LABE container in a pod must have a unique name (DN

Property	Type	Description
		Cannot be updated.
`ports`	`array`	List of ports to expose from the container. Not sp here DOES NOT prevent that port from being ex which is listening on the default "0.0.0.0" address container will be accessible from the network. Mo array with strategic merge patch may corrupt the information See https://github.com/kubernetes/kubernetes/issues Cannot be updated.
`readinessProbe`	`object`	Periodic probe of container service readiness. Co removed from service endpoints if the probe fails updated. More info: https://kubernetes.io/docs/concepts/workloads/po lifecycle#container-probes ↗
`resizePolicy`	`array`	Resources resize policy for the container.
`resources`	`object`	Compute Resources required by this container. C updated. More info: https://kubernetes.io/docs/concepts/configuration resources-containers/ ↗
`restartPolicy`	`string`	RestartPolicy defines the restart behavior of indiv in a pod. This field may only be set for init contai only allowed value is "Always". For non-init conta this field is not specified, the restart behavior is d

Property	Type	Description
		Pod's restart policy and the container type. Settir RestartPolicy as "Always" for the init container w following effect: this init container will be continua exit until all regular containers have terminated. (containers have completed, all init containers wit "Always" will be shut down. This lifecycle differs f containers and is often referred to as a "sidecar" Although this init container still starts in the init cc sequence, it does not wait for the container to co proceeding to the next init container. Instead, the container starts immediately after this init contair after any startupProbe has successfully complete
`securityContext`	`object`	SecurityContext defines the security options the be run with. If set, the fields of SecurityContext o equivalent fields of PodSecurityContext. More inf https://kubernetes.io/docs/tasks/configure-pod-container/security-context/ ↗
`startupProbe`	`object`	StartupProbe indicates that the Pod has success If specified, no other probes are executed until th successfully. If this probe fails, the Pod will be re the livenessProbe failed. This can be used to prc probe parameters at the beginning of a Pod's life might take a long time to load data or warm a ca steady-state operation. This cannot be updated. https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`stdin`	`boolean`	Whether this container should allocate a buffer fc container runtime. If this is not set, reads from st

Property	Type	Description
		container will always result in EOF. Default is fals
`stdinOnce`	`boolean`	Whether the container runtime should close the s after it has been opened by a single attach. Whe the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is oper start, is empty until the first client attaches to stdi remains open and accepts data until the client di which time stdin is closed and remains closed ur is restarted. If this flag is false, a container proce from stdin will never receive an EOF. Default is fa
`terminationMessagePath`	`string`	Optional: Path at which the file to which the conta termination message will be written is mounted ir container's filesystem. Message written is intend final status, such as an assertion failure messag truncated by the node if greater than 4096 bytes. message length across all containers will be limit Defaults to /dev/termination-log. Cannot be upda
`terminationMessagePolicy`	`string`	Indicate how the termination message should be will use the contents of terminationMessagePath container status message on both success and f FallbackToLogsOnError will use the last chunk o output if the termination message file is empty ar exited with an error. The log output is limited to 2 lines, whichever is smaller. Defaults to File. Cann

Property	Type	Description
`tty`	`boolean`	Whether this container should allocate a TTY for requires 'stdin' to be true. Default is false.
`volumeDevices`	`array`	volumeDevices is the list of block devices to be u container.
`volumeMounts`	`array`	Pod volumes to mount into the container's filesys updated.
`workingDir`	`string`	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

.spec.workloads[].template.spec.containers[].args

Description

Arguments to the entrypoint. The container image's CMD is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.containers[].args[]

Type

`string`

.spec.workloads[].template.spec.containers[].command

Description

Entrypoint array. Not executed within a shell. The container image's ENTRYPOINT is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.containers[].command[]

Type

`string`

.spec.workloads[].template.spec.containers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the environment variable. Must be a C_IDENTIFIER.
`value`	`string`	Variable references $(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
`valueFrom`	`object`	Source for the environment variable's value. Cannot be used if value is not empty.

.spec.workloads[].template.spec.containers[].env[].valueFrom

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
`configMapKeyRef`	`object`	Selects a key of a ConfigMap.
`fieldRef`	`object`	Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
`secretKeyRef`	`object`	Selects a key of a secret in the pod's namespace

.spec.workloads[].template.spec.containers[].env[].valueFrom.configMapKeyRef

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key to select.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap or its key must be defined

.spec.workloads[].template.spec.containers[].env[].valueFrom.fieldRef

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.containers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"

Property	Type	Description
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.containers[].env[].valueFrom.secretKeyRef

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key of the secret to select from. Must be a valid secret key.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.containers[].envFrom

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].envFrom[]

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
`configMapRef`	`object`	The ConfigMap to select from
`prefix`	`string`	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
`secretRef`	`object`	The Secret to select from

.spec.workloads[].template.spec.containers[].envFrom[].configMapRef

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap must be defined

.spec.workloads[].template.spec.containers[].envFrom[].secretRef

Description

The Secret to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret must be defined

.spec.workloads[].template.spec.containers[].lifecycle

Description

Actions that the management system should take in response to container lifecycle events. Cannot be updated.

Type

`object`

Property	Type	Description
`postStart`	`object`	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
`preStop`	`object`	PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the

Property	Type	Description
		container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

.spec.workloads[].template.spec.containers[].lifecycle.postStart

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.

Property	Type	Description
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.postStart.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.

Property	Type	Description
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].lifecycle.postStart.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].lifecycle.preStop

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to

Property	Type	Description
		explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.preStop.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.preStop.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].livenessProbe

Description

Periodic probe of container liveness. Container will be restarted if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I

Property	Type	Description
		Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.containers[].livenessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].livenessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.containers[].livenessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].livenessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].livenessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].ports

Description

List of ports to expose from the container. Not specifying a port here DOES NOT prevent that port from being exposed. Any port which is listening on the default "0.0.0.0" address inside a container will be accessible from the network. Modifying this array with strategic merge patch may corrupt the data. For more information See https://github.com/kubernetes/kubernetes/issues/108255. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].ports[]

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
`containerPort`	`integer`	Number of port to expose on the pod's IP address. This must be a valid port number, 0 < x < 65536.
`hostIP`	`string`	What host IP to bind the external port to.
`hostPort`	`integer`	Number of port to expose on the host. If specified, this must be a valid port number, 0 < x < 65536. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
`name`	`string`	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
`protocol`	`string`	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

.spec.workloads[].template.spec.containers[].readinessProbe

Description

Periodic probe of container service readiness. Container will be removed from service endpoints if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu

Property	Type	Description
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the ti processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.containers[].readinessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].readinessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].readinessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].readinessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.containers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].readinessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].readinessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].readinessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].resizePolicy

Description

Resources resize policy for the container.

Type

`array`

.spec.workloads[].template.spec.containers[].resizePolicy[]

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName` `restartPolicy`

Property	Type	Description
`resourceName`	`string`	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.
`restartPolicy`	`string`	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

.spec.workloads[].template.spec.containers[].resources

Description

Compute Resources required by this container. Cannot be updated. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

Property	Type	Description
`claims`	`array`	Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.containers[].resources.claims

Description

Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.

Type

`array`

.spec.workloads[].template.spec.containers[].resources.claims[]

Description

ResourceClaim references one entry in PodSpec.ResourceClaims.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.
`request`	`string`	Request is the name chosen for a request in the referenced claim. If empty, everything from the claim is made available, otherwise only the result of this request.

.spec.workloads[].template.spec.containers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.containers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.containers[].securityContext

Description

SecurityContext defines the security options the container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext. More info: https://kubernetes.io/docs/tasks/configure-pod-container/security-context/

Type

`object`

Property	Type	Description
`allowPrivilegeEscalation`	`boolean`	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no_new_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1. run as Privileged 2. has CAP_SYS_ADMIN Note that this field cannot be set when spec.os.name is windows.
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.
`capabilities`	`object`	The capabilities to add/drop when running containers. Defaults to the default set of

Property	Type	Description
		capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.
`privileged`	`boolean`	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when spec.os.name is windows.
`procMount`	`string`	procMount denotes the type of proc mount to use for the containers. The default value is Default which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows.
`readOnlyRootFilesystem`	`boolean`	Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.containers[].securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.containers[].securityContext.capabilities

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`add`	`array`	Added capabilities

Property	Type	Description
`drop`	`array`	Removed capabilities

.spec.workloads[].template.spec.containers[].securityContext.capabilities.add

Description

Added capabilities

Type

`array`

.spec.workloads[].template.spec.containers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.containers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.workloads[].template.spec.containers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.containers[].securityContext.seLinuxOptions

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.

Property	Type	Description
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.containers[].securityContext.seccompProfile

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container

Property	Type	Description
		runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.containers[].securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa ↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same

Property	Type	Description
		effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.containers[].startupProbe

Description

StartupProbe indicates that the Pod has successfully initialized. If specified, no other probes are executed until this completes successfully. If this probe fails, the Pod will be restarted, just as if the livenessProbe failed. This can be used to provide different probe parameters at the beginning of a Pod's lifecycle, when it might take a long time to load data or warm a cache, than during steady-state operation. This cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.containers[].startupProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].startupProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].startupProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].startupProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.containers[].startupProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].startupProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].volumeDevices

Description

volumeDevices is the list of block devices to be used by the container.

Type

`array`

.spec.workloads[].template.spec.containers[].volumeDevices[]

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath` `name`

Property	Type	Description
`devicePath`	`string`	devicePath is the path inside of the container that the device will be mapped to.

Property	Type	Description
`name`	`string`	name must match the name of a persistentVolumeClaim in the pod

.spec.workloads[].template.spec.containers[].volumeMounts

Description

Pod volumes to mount into the container's filesystem. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].volumeMounts[]

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath` `name`

Property	Type	Description
`mountPath`	`string`	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
`mountPropagation`	`string`	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. When RecursiveReadOnly is set to IfPossible or to Enabled, MountPropagation must be None or unspecified (which defaults to None).
`name`	`string`	This must match the Name of a Volume.
`readOnly`	`boolean`	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
`recursiveReadOnly`	`string`	RecursiveReadOnly specifies whether read-only mounts should be handled recursively. If ReadOnly is false, this field has no meaning and must be unspecified. If ReadOnly is true, and this field is set to Disabled, the mount is not made recursively read-only. If this field is set to IfPossible, the mount is made recursively read-only, if it is supported by the container runtime. If this field is set to Enabled, the mount is made recursively read-only if it is supported by the container runtime, otherwise the pod will not be started and an error will be generated to indicate the reason. If this field is set to IfPossible or Enabled, MountPropagation must be set to None (or be

Property	Type	Description
		unspecified, which defaults to None). If this field is not specified, it is treated as an equivalent of Disabled.
`subPath`	`string`	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
`subPathExpr`	`string`	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references $(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

.spec.workloads[].template.spec.dnsConfig

Description

Specifies the DNS parameters of a pod. Parameters specified here will be merged to the generated DNS configuration based on DNSPolicy.

Type

`object`

Property	Type	Description
`nameservers`	`array`	A list of DNS name server IP addresses. This will be appended to the base nameservers generated from DNSPolicy. Duplicated nameservers will be removed.
`options`	`array`	A list of DNS resolver options. This will be merged with the base options generated from DNSPolicy. Duplicated entries will be removed. Resolution options given in Options will override those that appear in the base DNSPolicy.
`searches`	`array`	A list of DNS search domains for host-name lookup. This will be appended to the base search paths generated from DNSPolicy. Duplicated search paths will be removed.

.spec.workloads[].template.spec.dnsConfig.nameservers

Description

A list of DNS name server IP addresses. This will be appended to the base nameservers generated from DNSPolicy. Duplicated nameservers will be removed.

Type

`array`

.spec.workloads[].template.spec.dnsConfig.nameservers[]

Type

`string`

.spec.workloads[].template.spec.dnsConfig.options

Description

A list of DNS resolver options. This will be merged with the base options generated from DNSPolicy. Duplicated entries will be removed. Resolution options given in Options will override those that appear in the base DNSPolicy.

Type

`array`

.spec.workloads[].template.spec.dnsConfig.options[]

Description

PodDNSConfigOption defines DNS resolver options of a pod.

Type

`object`

Property	Type	Description
`name`	`string`	Required.
`value`	`string`	

.spec.workloads[].template.spec.dnsConfig.searches

Description

A list of DNS search domains for host-name lookup. This will be appended to the base search paths generated from DNSPolicy. Duplicated search paths will be removed.

Type

`array`

.spec.workloads[].template.spec.dnsConfig.searches[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers

Description

List of ephemeral containers run in this pod. Ephemeral containers may be run in an existing pod to perform user-initiated actions such as debugging. This list cannot be specified when creating a pod, and it cannot be modified by updating the pod spec. In order to add an ephemeral container to an existing pod, use the pod's ephemeralcontainers subresource.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[]

Description

An EphemeralContainer is a temporary container that you may add to an existing Pod for user-initiated activities such as debugging. Ephemeral containers have no resource or scheduling guarantees, and they will not be restarted when they exit or when a Pod is removed or restarted. The kubelet may evict a Pod if an ephemeral container causes the Pod to exceed its resource allocation. To add an ephemeral container, use the ephemeralcontainers subresource of an existing Pod. Ephemeral containers may not be removed or restarted.

Type

`object`

Required

`name`

Property	Type	Description
`args`	`array`	Arguments to the entrypoint. The image's CMD is not provided. Variable references $(VAR_NAME) using the container's environment. If a variable c

Property	Type	Description
		resolved, the reference in the input string will be Double $$ are reduced to a single $, which allow the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" string literal "$(VAR_NAME)". Escaped reference expanded, regardless of whether the variable ex Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`command`	`array`	Entrypoint array. Not executed within a shell. The ENTRYPOINT is used if this is not provided. Vari $(VAR_NAME) are expanded using the containe If a variable cannot be resolved, the reference in will be unchanged. Double $$ are reduced to a s allows for escaping the $(VAR_NAME) syntax: i. "$$(VAR_NAME)" will produce the string literal "$ Escaped references will never be expanded, reg whether the variable exists or not. Cannot be upd https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`env`	`array`	List of environment variables to set in the contair updated.

Property	Type	Description
`envFrom`	`array`	List of sources to populate environment variables container. The keys defined within a source must C_IDENTIFIER. All invalid keys will be reported a when the container is starting. When a key exists sources, the value associated with the last sourc precedence. Values defined by an Env with a du take precedence. Cannot be updated.
`image`	`string`	Container image name. More info: https://kubernetes.io/docs/concepts/containers/ir
`imagePullPolicy`	`string`	Image pull policy. One of Always, Never, IfNotPre to Always if :latest tag is specified, or IfNotPrese Cannot be updated. More info: https://kubernetes.io/docs/concepts/containers/ir images ↗
`lifecycle`	`object`	Lifecycle is not allowed for ephemeral containers
`livenessProbe`	`object`	Probes are not allowed for ephemeral containers
`name`	`string`	Name of the ephemeral container specified as a This name must be unique among all containers, and ephemeral containers.

Property	Type	Description
`ports`	`array`	Ports are not allowed for ephemeral containers.
`readinessProbe`	`object`	Probes are not allowed for ephemeral containers
`resizePolicy`	`array`	Resources resize policy for the container.
`resources`	`object`	Resources are not allowed for ephemeral contai containers use spare resources already allocate
`restartPolicy`	`string`	Restart policy for the container to manage the re each container within a pod. This may only be se containers. You cannot set this field on ephemer
`securityContext`	`object`	Optional: SecurityContext defines the security op ephemeral container should be run with. If set, th SecurityContext override the equivalent fields of PodSecurityContext.
`startupProbe`	`object`	Probes are not allowed for ephemeral containers
`stdin`	`boolean`	Whether this container should allocate a buffer fo container runtime. If this is not set, reads from st container will always result in EOF. Default is fals

Property	Type	Description
`stdinOnce`	`boolean`	Whether the container runtime should close the s after it has been opened by a single attach. Whe the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is oper start, is empty until the first client attaches to stdi remains open and accepts data until the client di which time stdin is closed and remains closed ur is restarted. If this flag is false, a container proce from stdin will never receive an EOF. Default is fa
`targetContainerName`	`string`	If set, the name of the container from PodSpec th ephemeral container targets. The ephemeral cor run in the namespaces (IPC, PID, etc) of this cor then the ephemeral container uses the namespa in the Pod spec. The container runtime must implement support fo the runtime does not support namespace targeti result of setting this field is undefined.
`terminationMessagePath`	`string`	Optional: Path at which the file to which the conta termination message will be written is mounted in container's filesystem. Message written is intend final status, such as an assertion failure messag truncated by the node if greater than 4096 bytes. message length across all containers will be limit Defaults to /dev/termination-log. Cannot be upda
`terminationMessagePolicy`	`string`	Indicate how the termination message should be will use the contents of terminationMessagePath

Property	Type	Description
		container status message on both success and f FallbackToLogsOnError will use the last chunk o output if the termination message file is empty ar exited with an error. The log output is limited to 2 lines, whichever is smaller. Defaults to File. Canr
`tty`	`boolean`	Whether this container should allocate a TTY for requires 'stdin' to be true. Default is false.
`volumeDevices`	`array`	volumeDevices is the list of block devices to be u container.
`volumeMounts`	`array`	Pod volumes to mount into the container's filesys mounts are not allowed for ephemeral containers updated.
`workingDir`	`string`	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

.spec.workloads[].template.spec.ephemeralContainers[].args

Description

Arguments to the entrypoint. The image's CMD is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e.

"$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].args[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].command

Description

Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the environment variable. Must be a C_IDENTIFIER.
`value`	`string`	Variable references $(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME)

Property	Type	Description
		syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
`valueFrom`	`object`	Source for the environment variable's value. Cannot be used if value is not empty.

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
`configMapKeyRef`	`object`	Selects a key of a ConfigMap.
`fieldRef`	`object`	Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Property	Type	Description
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
`secretKeyRef`	`object`	Selects a key of a secret in the pod's namespace

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.configMapKeyRef

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key to select.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap or its key must be defined

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.fieldRef

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.secretKeyRef

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key of the secret to select from. Must be a valid secret key.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.ephemeralContainers[].envFrom

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].envFrom[]

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
`configMapRef`	`object`	The ConfigMap to select from
`prefix`	`string`	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
`secretRef`	`object`	The Secret to select from

.spec.workloads[].template.spec.ephemeralContainers[].envFrom[].configMapRef

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap must be defined

.spec.workloads[].template.spec.ephemeralContainers[].envFrom[].secretRef

Description

The Secret to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret must be defined

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle

Description

Lifecycle is not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`postStart`	`object`	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
`preStop`	`object`	PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be

Property	Type	Description
		an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility.

Property	Type	Description
		There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.

Property	Type	Description
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when

tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.

Property	Type	Description
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru

Property	Type	Description
		pod are sent a termination signal and the ti processes are forcibly halted with a kill sigı value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceF gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root

Property	Type	Description
		('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].ports

Description

Ports are not allowed for ephemeral containers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].ports[]

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
`containerPort`	`integer`	Number of port to expose on the pod's IP address. This must be a valid port number, 0 < x < 65536.

Property	Type	Description
`hostIP`	`string`	What host IP to bind the external port to.
`hostPort`	`integer`	Number of port to expose on the host. If specified, this must be a valid port number, 0 < x < 65536. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
`name`	`string`	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
`protocol`	`string`	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].resizePolicy

Description

Resources resize policy for the container.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].resizePolicy[]

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName` `restartPolicy`

Property	Type	Description
`resourceName`	`string`	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.

Property	Type	Description
`restartPolicy`	`string`	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

.spec.workloads[].template.spec.ephemeralContainers[].resources

Description

Resources are not allowed for ephemeral containers. Ephemeral containers use spare resources already allocated to the pod.

Type

`object`

Property	Type	Description
`claims`	`array`	Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.ephemeralContainers[].resources.claims

Description

Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].resources.claims[]

Description

ResourceClaim references one entry in PodSpec.ResourceClaims.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.
`request`	`string`	Request is the name chosen for a request in the referenced claim. If empty, everything from the claim is made available, otherwise only the result of this request.

.spec.workloads[].template.spec.ephemeralContainers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.ephemeralContainers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext

Description

Optional: SecurityContext defines the security options the ephemeral container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext.

Type

`object`

Property	Type	Description
`allowPrivilegeEscalation`	`boolean`	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no_new_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1. run as Privileged 2. has CAP_SYS_ADMIN Note that this field cannot be set when spec.os.name is windows.
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.
`capabilities`	`object`	The capabilities to add/drop when running containers. Defaults to the default set of

Property	Type	Description
		capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.
`privileged`	`boolean`	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when spec.os.name is windows.
`procMount`	`string`	procMount denotes the type of proc mount to use for the containers. The default value is Default which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows.
`readOnlyRootFilesystem`	`boolean`	Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`add`	`array`	Added capabilities

Property	Type	Description
`drop`	`array`	Removed capabilities

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.add

Description

Added capabilities

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.seLinuxOptions

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.

Property	Type	Description
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.seccompProfile

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container

Property	Type	Description
		runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same

Property	Type	Description
		effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded.

Property	Type	Description
		Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the ti processes are forcibly halted with a kill sig value longer than the expected cleanup tim

Property	Type	Description
		process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceF gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to

Property	Type	Description
		explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.

Property	Type	Description
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].volumeDevices

Description

volumeDevices is the list of block devices to be used by the container.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].volumeDevices[]

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath` `name`

Property	Type	Description
`devicePath`	`string`	devicePath is the path inside of the container that the device will be mapped to.

Property	Type	Description
`name`	`string`	name must match the name of a persistentVolumeClaim in the pod

.spec.workloads[].template.spec.ephemeralContainers[].volumeMounts

Description

Pod volumes to mount into the container's filesystem. Subpath mounts are not allowed for ephemeral containers. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].volumeMounts[]

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath` `name`

Property	Type	Description
`mountPath`	`string`	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
`mountPropagation`	`string`	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. When RecursiveReadOnly is set to IfPossible or to Enabled, MountPropagation must be None or unspecified (which defaults to None).
`name`	`string`	This must match the Name of a Volume.
`readOnly`	`boolean`	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
`recursiveReadOnly`	`string`	RecursiveReadOnly specifies whether read-only mounts should be handled recursively. If ReadOnly is false, this field has no meaning and must be unspecified. If ReadOnly is true, and this field is set to Disabled, the mount is not made recursively read-only. If this field is set to IfPossible, the mount is made recursively read-only, if it is supported by the container runtime. If this field is set to Enabled, the mount is made recursively read-only if it is supported by the container runtime, otherwise the pod will not be started and an error will be generated to indicate the reason. If this field is set to IfPossible or Enabled, MountPropagation must be set to None (or be

Property	Type	Description
		unspecified, which defaults to None). If this field is not specified, it is treated as an equivalent of Disabled.
`subPath`	`string`	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
`subPathExpr`	`string`	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references $(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

.spec.workloads[].template.spec.hostAliases

Description

HostAliases is an optional list of hosts and IPs that will be injected into the pod's hosts file if specified.

Type

`array`

.spec.workloads[].template.spec.hostAliases[]

Description

HostAlias holds the mapping between IP and hostnames that will be injected as an entry in the pod's hosts file.

Type

`object`

Required

`ip`

Property	Type	Description
`hostnames`	`array`	Hostnames for the above IP address.
`ip`	`string`	IP address of the host file entry.

.spec.workloads[].template.spec.hostAliases[].hostnames

Description

Hostnames for the above IP address.

Type

`array`

.spec.workloads[].template.spec.hostAliases[].hostnames[]

Type

`string`

.spec.workloads[].template.spec.imagePullSecrets

Description

ImagePullSecrets is an optional list of references to secrets in the same namespace to use for pulling any of the images used by this PodSpec. If specified, these secrets will be passed to individual puller implementations for them to use. More info:

https://kubernetes.io/docs/concepts/containers/images#specifying-imagepullsecrets-on-a-pod

Type

`array`

.spec.workloads[].template.spec.imagePullSecrets[]

Description

LocalObjectReference contains enough information to let you locate the referenced object inside the same namespace.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.initContainers

Description

List of initialization containers belonging to the pod. Init containers are executed in order prior to containers being started. If any init container fails, the pod is considered to have failed and is handled according to its restartPolicy. The name for an init container or normal container must be unique among all containers. Init containers may not have Lifecycle actions, Readiness probes, Liveness probes, or Startup probes. The resourceRequirements of an init container are taken into account during scheduling by finding the highest request/limit for each resource type, and then using the max of of that value or the sum of the normal containers. Limits are applied to init containers in a similar fashion. Init

containers cannot currently be added or removed. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/init-containers/

Type

`array`

.spec.workloads[].template.spec.initContainers[]

Description

A single application container that you want to run within a pod.

Type

`object`

Required

`name`

Property	Type	Description
`args`	`array`	Arguments to the entrypoint. The container imag if this is not provided. Variable references $(VAR expanded using the container's environment. If a be resolved, the reference in the input string will Double $$ are reduced to a single $, which allow the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" string literal "$(VAR_NAME)". Escaped reference expanded, regardless of whether the variable ex Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`command`	`array`	Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provi references $(VAR_NAME) are expanded using tl environment. If a variable cannot be resolved, th

Property	Type	Description
		the input string will be unchanged. Double $$ are single $, which allows for escaping the $(VAR_N i.e. "$$(VAR_NAME)" will produce the string liter "$(VAR_NAME)". Escaped references will never regardless of whether the variable exists or not. updated. More info: https://kubernetes.io/docs/ta application/define-command-argument-container command-in-a-shell ↗
`env`	`array`	List of environment variables to set in the contair updated.
`envFrom`	`array`	List of sources to populate environment variables container. The keys defined within a source mus C_IDENTIFIER. All invalid keys will be reported a when the container is starting. When a key exists sources, the value associated with the last sourc precedence. Values defined by an Env with a du take precedence. Cannot be updated.
`image`	`string`	Container image name. More info: https://kubernetes.io/docs/concepts/containers/ir field is optional to allow higher level config mana default or override container images in workload Deployments and StatefulSets.
`imagePullPolicy`	`string`	Image pull policy. One of Always, Never, IfNotPre to Always if :latest tag is specified, or IfNotPrese Cannot be updated. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/containers/ir images ↗
`lifecycle`	`object`	Actions that the management system should tak container lifecycle events. Cannot be updated.
`livenessProbe`	`object`	Periodic probe of container liveness. Container w the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`name`	`string`	Name of the container specified as a DNS_LABE container in a pod must have a unique name (DN Cannot be updated.
`ports`	`array`	List of ports to expose from the container. Not sp here DOES NOT prevent that port from being ex which is listening on the default "0.0.0.0" address container will be accessible from the network. M array with strategic merge patch may corrupt the information See https://github.com/kubernetes/kubernetes/issues Cannot be updated.
`readinessProbe`	`object`	Periodic probe of container service readiness. C removed from service endpoints if the probe fails updated. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`resizePolicy`	`array`	Resources resize policy for the container.
`resources`	`object`	Compute Resources required by this container. C updated. More info: https://kubernetes.io/docs/concepts/configuratior resources-containers/ ↗
`restartPolicy`	`string`	RestartPolicy defines the restart behavior of indiv in a pod. This field may only be set for init contai only allowed value is "Always". For non-init conta this field is not specified, the restart behavior is d Pod's restart policy and the container type. Settir RestartPolicy as "Always" for the init container w following effect: this init container will be continua exit until all regular containers have terminated. C containers have completed, all init containers wit "Always" will be shut down. This lifecycle differs f containers and is often referred to as a "sidecar" Although this init container still starts in the init co sequence, it does not wait for the container to co proceeding to the next init container. Instead, the container starts immediately after this init contair after any startupProbe has successfully complete
`securityContext`	`object`	SecurityContext defines the security options the be run with. If set, the fields of SecurityContext o equivalent fields of PodSecurityContext. More inf

Property	Type	Description
		https://kubernetes.io/docs/tasks/configure-pod-container/security-context/ ↗
`startupProbe`	`object`	StartupProbe indicates that the Pod has success If specified, no other probes are executed until th successfully. If this probe fails, the Pod will be re the livenessProbe failed. This can be used to pro probe parameters at the beginning of a Pod's life might take a long time to load data or warm a ca steady-state operation. This cannot be updated. https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`stdin`	`boolean`	Whether this container should allocate a buffer fo container runtime. If this is not set, reads from st container will always result in EOF. Default is fals
`stdinOnce`	`boolean`	Whether the container runtime should close the s after it has been opened by a single attach. Whe the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is oper start, is empty until the first client attaches to stdi remains open and accepts data until the client di which time stdin is closed and remains closed ur is restarted. If this flag is false, a container proce from stdin will never receive an EOF. Default is fa
`terminationMessagePath`	`string`	Optional: Path at which the file to which the conta termination message will be written is mounted i container's filesystem. Message written is intend

Property	Type	Description
		final status, such as an assertion failure messag truncated by the node if greater than 4096 bytes. message length across all containers will be limit Defaults to /dev/termination-log. Cannot be upda
`terminationMessagePolicy`	`string`	Indicate how the termination message should be will use the contents of terminationMessagePath container status message on both success and f FallbackToLogsOnError will use the last chunk o output if the termination message file is empty ar exited with an error. The log output is limited to 2 lines, whichever is smaller. Defaults to File. Cann
`tty`	`boolean`	Whether this container should allocate a TTY for requires 'stdin' to be true. Default is false.
`volumeDevices`	`array`	volumeDevices is the list of block devices to be u container.
`volumeMounts`	`array`	Pod volumes to mount into the container's filesys updated.
`workingDir`	`string`	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

.spec.workloads[].template.spec.initContainers[].args

Description

Arguments to the entrypoint. The container image's CMD is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.initContainers[].args[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].command

Description

Entrypoint array. Not executed within a shell. The container image's ENTRYPOINT is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.initContainers[].command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the environment variable. Must be a C_IDENTIFIER.
`value`	`string`	Variable references $(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input

Property	Type	Description
		string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
`valueFrom`	`object`	Source for the environment variable's value. Cannot be used if value is not empty.

.spec.workloads[].template.spec.initContainers[].env[].valueFrom

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
`configMapKeyRef`	`object`	Selects a key of a ConfigMap.
`fieldRef`	`object`	Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Property	Type	Description
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
`secretKeyRef`	`object`	Selects a key of a secret in the pod's namespace

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.configMapKeyRef

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key to select.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap or its key must be defined

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.fieldRef

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.secretKeyRef

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key of the secret to select from. Must be a valid secret key.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.initContainers[].envFrom

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].envFrom[]

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
`configMapRef`	`object`	The ConfigMap to select from
`prefix`	`string`	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
`secretRef`	`object`	The Secret to select from

.spec.workloads[].template.spec.initContainers[].envFrom[].configMapRef

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

Property	Type	Description
`optional`	`boolean`	Specify whether the ConfigMap must be defined

.spec.workloads[].template.spec.initContainers[].envFrom[].secretRef

Description

The Secret to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret must be defined

.spec.workloads[].template.spec.initContainers[].lifecycle

Description

Actions that the management system should take in response to container lifecycle events. Cannot be updated.

Type

`object`

Property	Type	Description
`postStart`	`object`	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
`preStop`	`object`	PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the

container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.

Property	Type	Description
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when

tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].livenessProbe

Description

Periodic probe of container liveness. Container will be restarted if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.

Property	Type	Description
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru

Property	Type	Description
		pod are sent a termination signal and the ti processes are forcibly halted with a kill sigı value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceF gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.initContainers[].livenessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root

Property	Type	Description
		('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].livenessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.initContainers[].livenessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].livenessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].livenessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].ports

Description

List of ports to expose from the container. Not specifying a port here DOES NOT prevent that port from being exposed. Any port which is listening on the default "0.0.0.0" address inside a container will be accessible from the network. Modifying this array with strategic merge patch may corrupt the data. For more information See https://github.com/kubernetes/kubernetes/issues/108255. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].ports[]

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
`containerPort`	`integer`	Number of port to expose on the pod's IP address. This must be a valid port number, 0 < x < 65536.

Property	Type	Description
`hostIP`	`string`	What host IP to bind the external port to.
`hostPort`	`integer`	Number of port to expose on the host. If specified, this must be a valid port number, 0 < x < 65536. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
`name`	`string`	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
`protocol`	`string`	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

.spec.workloads[].template.spec.initContainers[].readinessProbe

Description

Periodic probe of container service readiness. Container will be removed from service endpoints if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.initContainers[].readinesProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].readinesProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].readinesProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].readinesProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.initContainers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].readinesProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].readinesProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].readinessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].resizePolicy

Description

Resources resize policy for the container.

Type

`array`

.spec.workloads[].template.spec.initContainers[].resizePolicy[]

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName` `restartPolicy`

Property	Type	Description
`resourceName`	`string`	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.

Property	Type	Description
`restartPolicy`	`string`	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

.spec.workloads[].template.spec.initContainers[].resources

Description

Compute Resources required by this container. Cannot be updated. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

Property	Type	Description
`claims`	`array`	Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.initContainers[].resources.claims

Description

Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].resources.claims[]

Description

ResourceClaim references one entry in PodSpec.ResourceClaims.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.
`request`	`string`	Request is the name chosen for a request in the referenced claim. If empty, everything from the claim is made available, otherwise only the result of this request.

.spec.workloads[].template.spec.initContainers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.initContainers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.initContainers[].securityContext

Description

SecurityContext defines the security options the container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext. More info: https://kubernetes.io/docs/tasks/configure-pod-container/security-context/

Type

`object`

Property	Type	Description
`allowPrivilegeEscalation`	`boolean`	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no_new_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1. run as Privileged 2. has CAP_SYS_ADMIN Note that this field cannot be set when spec.os.name is windows.
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.
`capabilities`	`object`	The capabilities to add/drop when running containers. Defaults to the default set of

Property	Type	Description
		capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.
`privileged`	`boolean`	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when spec.os.name is windows.
`procMount`	`string`	procMount denotes the type of proc mount to use for the containers. The default value is Default which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows.
`readOnlyRootFilesystem`	`boolean`	Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.initContainers[].securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`add`	`array`	Added capabilities

Property	Type	Description
`drop`	`array`	Removed capabilities

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.add

Description

Added capabilities

Type

`array`

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.initContainers[].securityContext.seLinuxOptions

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.

Property	Type	Description
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.initContainers[].securityContext.seccompProfile

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container

Property	Type	Description
		runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.initContainers[].securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa ↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same

Property	Type	Description
		effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.initContainers[].startupProbe

Description

StartupProbe indicates that the Pod has successfully initialized. If specified, no other probes are executed until this completes successfully. If this probe fails, the Pod will be restarted, just as if the livenessProbe failed. This can be used to provide different probe parameters at the beginning of a Pod's lifecycle, when it might take a long time to load data or warm a cache, than during steady-state operation. This cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.initContainers[].startupProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].startupProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].startupProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].startupProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.initContainers[].startupProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].startupProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].volumeDevices

Description

volumeDevices is the list of block devices to be used by the container.

Type

`array`

.spec.workloads[].template.spec.initContainers[].volumeDevices[]

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath` `name`

Property	Type	Description
`devicePath`	`string`	devicePath is the path inside of the container that the device will be mapped to.

Property	Type	Description
`name`	`string`	name must match the name of a persistentVolumeClaim in the pod

.spec.workloads[].template.spec.initContainers[].volumeMounts

Description

Pod volumes to mount into the container's filesystem. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].volumeMounts[]

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath` `name`

Property	Type	Description
`mountPath`	`string`	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
`mountPropagation`	`string`	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. When RecursiveReadOnly is set to IfPossible or to Enabled, MountPropagation must be None or unspecified (which defaults to None).
`name`	`string`	This must match the Name of a Volume.
`readOnly`	`boolean`	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
`recursiveReadOnly`	`string`	RecursiveReadOnly specifies whether read-only mounts should be handled recursively. If ReadOnly is false, this field has no meaning and must be unspecified. If ReadOnly is true, and this field is set to Disabled, the mount is not made recursively read-only. If this field is set to IfPossible, the mount is made recursively read-only, if it is supported by the container runtime. If this field is set to Enabled, the mount is made recursively read-only if it is supported by the container runtime, otherwise the pod will not be started and an error will be generated to indicate the reason. If this field is set to IfPossible or Enabled, MountPropagation must be set to None (or be

Property	Type	Description
		unspecified, which defaults to None). If this field is not specified, it is treated as an equivalent of Disabled.
`subPath`	`string`	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
`subPathExpr`	`string`	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references $(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

.spec.workloads[].template.spec.nodeSelector

Description

NodeSelector is a selector which must be true for the pod to fit on a node. Selector which must match a node's labels for the pod to be scheduled on that node. More info: https://kubernetes.io/docs/concepts/configuration/assign-pod-node/

Type

`object`

.spec.workloads[].template.spec.os

Description

Specifies the OS of the containers in the pod. Some pod and container fields are restricted if this is set. If the OS field is set to linux, the following fields must be unset: - securityContext.windowsOptions If the OS field is set to windows, following fields must be unset: - spec.hostPID - spec.hostIPC - spec.hostUsers - spec.securityContext.appArmorProfile - spec.securityContext.seLinuxOptions - spec.securityContext.seccompProfile - spec.securityContext.fsGroup - spec.securityContext.fsGroupChangePolicy - spec.securityContext.sysctls - spec.shareProcessNamespace - spec.securityContext.runAsUser - spec.securityContext.runAsGroup - spec.securityContext.supplementalGroups - spec.securityContext.supplementalGroupsPolicy - spec.containers[*].securityContext.appArmorProfile - spec.containers[*].securityContext.seLinuxOptions - spec.containers[*].securityContext.seccompProfile - spec.containers[*].securityContext.capabilities - spec.containers[*].securityContext.readOnlyRootFilesystem - spec.containers[*].securityContext.privileged - spec.containers[*].securityContext.allowPrivilegeEscalation - spec.containers[*].securityContext.procMount - spec.containers[*].securityContext.runAsUser - spec.containers[*].securityContext.runAsGroup

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name is the name of the operating system. The currently supported values are linux and windows. Additional value may be defined in future and can be one of: https://github.com/opencontainers/runtime-spec/blob/master/config.md#platform-specific-configuration ↗ Clients should expect to handle additional values and treat unrecognized values in this field as os: null

.spec.workloads[].template.spec.overhead

Description

Overhead represents the resource overhead associated with running a pod for a given RuntimeClass. This field will be autopopulated at admission time by the RuntimeClass admission controller. If the RuntimeClass admission controller is enabled, overhead must not be set in Pod create requests. The RuntimeClass admission controller will reject Pod create requests which have the overhead already set. If RuntimeClass is configured and selected in the PodSpec, Overhead will be set to the value defined in the corresponding RuntimeClass, otherwise it will remain unset and treated as zero. More info: https://git.k8s.io/enhancements/keps/sig-node/688-pod-overhead/README.md

Type

`object`

.spec.workloads[].template.spec.readinessGates

Description

If specified, all readiness gates will be evaluated for pod readiness. A pod is ready when all its containers are ready AND all conditions specified in the readiness gates have status equal to "True" More info: https://git.k8s.io/enhancements/keps/sig-network/580-pod-readiness-gates

Type

`array`

.spec.workloads[].template.spec.readinessGates[]

Description

PodReadinessGate contains the reference to a pod condition

Type

`object`

Required

`conditionType`

Property	Type	Description
`conditionType`	`string`	ConditionType refers to a condition in the pod's condition list with matching type.

.spec.workloads[].template.spec.resourceClaims

Description

ResourceClaims defines which ResourceClaims must be allocated and reserved before the Pod is allowed to start. The resources will be made available to those containers which consume them by name. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable.

Type

`array`

.spec.workloads[].template.spec.resourceClaims[]

Description

PodResourceClaim references exactly one ResourceClaim, either directly or by naming a ResourceClaimTemplate which is then turned into a ResourceClaim for the pod. It adds a name to it that uniquely identifies the ResourceClaim inside the Pod. Containers that need access to the ResourceClaim reference it with this name.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name uniquely identifies this resource claim inside the pod. This must be a

Property	Type	Description
		DNS_LABEL.
`resourceClaimName`	`string`	ResourceClaimName is the name of a ResourceClaim object in the same namespace as this pod. Exactly one of ResourceClaimName and ResourceClaimTemplateName must be set.
`resourceClaimTemplateName`	`string`	ResourceClaimTemplateName is the name of a ResourceClaimTemplate object in the same namespace as this pod. The template will be used to create a new ResourceClaim, which will be bound to this pod. When this pod is deleted, the ResourceClaim will also be deleted. The pod name and resource name, along with a generated component, will be used to form a unique name for the ResourceClaim, which will be recorded in pod.status.resourceClaimStatuses. This field is immutable and no changes will be made to the corresponding ResourceClaim by the control plane after creating the ResourceClaim. Exactly one of ResourceClaimName and ResourceClaimTemplateName must be set.

.spec.workloads[].template.spec.schedulingGates

Description

SchedulingGates is an opaque list of values that if specified will block scheduling the pod. If schedulingGates is not empty, the pod will stay in the SchedulingGated state and the scheduler will not attempt to schedule the pod. SchedulingGates can only be set at pod creation time, and be removed only afterwards.

Type

`array`

.spec.workloads[].template.spec.schedulingGates[]

Description

PodSchedulingGate is associated to a Pod to guard its scheduling.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the scheduling gate. Each scheduling gate must have a unique name field.

.spec.workloads[].template.spec.securityContext

Description

SecurityContext holds pod-level security attributes and common container settings. Optional: Defaults to empty. See type description for default values of each field.

Type

`object`

Property	Type	Description
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.
`fsGroup`	`integer`	A special supplemental group that applies to all containers in a pod. Some volume types allow the Kubelet to change the ownership of that volume to be owned by the pod: 1. The owning GID will be the FSGroup 2. The setgid bit is set (new files created in the volume will be owned by FSGroup) 3. The permission bits are OR'd with rw-rw---- If unset, the Kubelet will not modify the ownership and permissions of any volume. Note that this field cannot be set when spec.os.name is windows.
`fsGroupChangePolicy`	`string`	fsGroupChangePolicy defines behavior of changing ownership and permission of the volume before being exposed inside Pod. This field will only apply to volume types which support fsGroup based ownership(and permissions). It will have no effect on ephemeral volume types such as: secret, configmaps and emptydir. Valid values are "OnRootMismatch" and

Property	Type	Description
		"Always". If not specified, "Always" is used. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that

Property	Type	Description
		container. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to all containers. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.
`supplementalGroups`	`array`	A list of groups applied to the first process run in each container, in addition to the container's primary GID and fsGroup (if specified). If the SupplementalGroupsPolicy feature is enabled, the supplementalGroupsPolicy field determines whether these are in addition to or instead of any group memberships defined in the container image. If unspecified, no additional groups are added, though group memberships defined in the container image may still be used, depending on the

Property	Type	Description
		supplementalGroupsPolicy field. Note that this field cannot be set when spec.os.name is windows.
`supplementalGroupsPolicy`	`string`	Defines how supplemental groups of the first container processes are calculated. Valid values are "Merge" and "Strict". If not specified, "Merge" is used. (Alpha) Using the field requires the SupplementalGroupsPolicy feature gate to be enabled and the container runtime must implement support for this feature. Note that this field cannot be set when spec.os.name is windows.
`sysctls`	`array`	Sysctls hold a list of namespaced sysctls used for the pod. Pods with unsupported sysctls (by the container runtime) might fail to launch. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options within a container's SecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.securityContext.seLinuxOptions

Description

The SELinux context to be applied to all containers. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in SecurityContext.

If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.securityContext.seccompProfile

Description

The seccomp options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.securityContext.supplementalGroups

Description

A list of groups applied to the first process run in each container, in addition to the container's primary GID and fsGroup (if specified). If the SupplementalGroupsPolicy feature is enabled, the supplementalGroupsPolicy field determines whether these are in addition to or instead of any group memberships defined in the container image. If unspecified, no additional groups are added, though group memberships defined in the container image may still be used, depending on the supplementalGroupsPolicy field. Note that this field cannot be set when spec.os.name is windows.

Type

`array`

.spec.workloads[].template.spec.securityContext.supplementalGroups[]

Type

`integer`

.spec.workloads[].template.spec.securityContext.sysctls

Description

Sysctls hold a list of namespaced sysctls used for the pod. Pods with unsupported sysctls (by the container runtime) might fail to launch. Note that this field cannot be set when spec.os.name is windows.

Type

`array`

.spec.workloads[].template.spec.securityContext.sysctls[]

Description

Sysctl defines a kernel parameter to be set

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	Name of a property to set
`value`	`string`	Value of a property to set

.spec.workloads[].template.spec.securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options within a container's SecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.

Property	Type	Description
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.tolerations

Description

If specified, the pod's tolerations.

Type

`array`

.spec.workloads[].template.spec.tolerations[]

Description

The pod this Toleration is attached to tolerates any taint that matches the triple <key,value,effect> using the matching operator <operator>.

Type

`object`

Property	Type	Description
`effect`	`string`	Effect indicates the taint effect to match. Empty means match all taint effects. When specified, allowed values are NoSchedule, PreferNoSchedule and NoExecute.
`key`	`string`	Key is the taint key that the toleration applies to. Empty means match all taint keys. If the key is empty, operator must be Exists; this combination means to match all values and all keys.
`operator`	`string`	Operator represents a key's relationship to the value. Valid operators are Exists and Equal. Defaults to Equal. Exists is equivalent to wildcard for value, so that a pod can tolerate all taints of a particular category.
`tolerationSeconds`	`integer`	TolerationSeconds represents the period of time the toleration (which must be of effect NoExecute, otherwise this field is ignored) tolerates the taint. By default, it is not set, which means tolerate the taint forever (do not evict). Zero and negative values will be treated as 0 (evict immediately) by the system.
`value`	`string`	Value is the taint value the toleration matches to. If the operator is Exists, the value should be empty, otherwise just a regular string.

.spec.workloads[].template.spec.topologySpreadConstraints

Description

TopologySpreadConstraints describes how a group of pods ought to spread across topology domains. Scheduler will schedule pods in a way which abides by the constraints. All topologySpreadConstraints are ANDed.

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[]

Description

TopologySpreadConstraint specifies how to spread matching pods among the given topology.

Type

`object`

Required

`maxSkew` `topologyKey` `whenUnsatisfiable`

Property	Type	Description
`labelSelector`	`object`	LabelSelector is used to find matching pods. Pods that match this label selector are counted to determine the number of pods in their corresponding topology domain.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select the pods over which spreading will be calculated. The keys are used to lookup values

Property	Type	Description
		from the incoming pod labels, those key-value labels are ANDed with labelSelector to select the group of existing pods over which spreading will be calculated for the incoming pod. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. MatchLabelKeys cannot be set when LabelSelector isn't set. Keys that don't exist in the incoming pod labels will be ignored. A null or empty list means only match against labelSelector. This is a beta field and requires the MatchLabelKeysInPodTopologySpread feature gate to be enabled (enabled by default).
`maxSkew`	`integer`	MaxSkew describes the degree to which pods may be unevenly distributed. When `whenUnsatisfiable=DoNotSchedule`, it is the maximum permitted difference between the number of matching pods in the target topology and the global minimum. The global minimum is the minimum number of matching pods in an eligible domain or zero if the number of eligible domains is less than MinDomains. For example, in a 3-zone cluster, MaxSkew is set to 1, and pods with the same labelSelector spread as 2/2/1: In this case, the global minimum is 1. | zone1 | zone2 | zone3 | | P P | P P | P | • if MaxSkew is 1, incoming pod can only be scheduled to zone3 to become 2/2/2; scheduling it onto zone1(zone2) would make the ActualSkew(3-1) on zone1(zone2) violate MaxSkew(1).

Property	Type	Description
		• if MaxSkew is 2, incoming pod can be scheduled onto any zone. When `whenUnsatisfiable=ScheduleAnyway`, it is used to give higher precedence to topologies that satisfy it. It's a required field. Default value is 1 and 0 is not allowed.

Property	Type	Description
`minDomains`	`integer`	MinDomains indicates a minimum number of eligible domains. When the number of eligible domains with matching topology keys is less than minDomains, Pod Topology Spread treats "global minimum" as 0, and then the calculation of Skew is performed. And when the number of eligible domains with matching topology keys equals or greater than minDomains, this value has no effect on scheduling. As a result, when the number of eligible domains is less than minDomains, scheduler won't schedule more than maxSkew Pods to those domains. If value is nil, the constraint behaves as if MinDomains is equal to 1. Valid values are integers greater than 0. When value is not nil, WhenUnsatisfiable must be DoNotSchedule. For example, in a 3-zone cluster, MaxSkew is set to 2, MinDomains is set to 5 and pods with the same labelSelector spread as 2/2/2: | zone1 | zone2 | zone3 | | P P | P P | P P | The number of domains is less than 5(MinDomains), so "global minimum" is treated as 0. In this situation, new pod with the same labelSelector cannot be scheduled, because computed skew will be 3(3 - 0) if new Pod is scheduled to any of the three zones, it will violate MaxSkew.
`nodeAffinityPolicy`	`string`	NodeAffinityPolicy indicates how we will treat Pod's nodeAffinity/nodeSelector when calculating pod topology spread skew. Options are:

Property	Type	Description
		• Honor: only nodes matching nodeAffinity/nodeSelector are included in the calculations. • Ignore: nodeAffinity/nodeSelector are ignored. All nodes are included in the calculations. If this value is nil, the behavior is equivalent to the Honor policy. This is a beta-level feature default enabled by the NodeInclusionPolicyInPodTopologySpread feature flag.
`nodeTaintsPolicy`	`string`	NodeTaintsPolicy indicates how we will treat node taints when calculating pod topology spread skew. Options are: • Honor: nodes without taints, along with tainted nodes for which the incoming pod has a toleration, are included. • Ignore: node taints are ignored. All nodes are included. If this value is nil, the behavior is equivalent to the Ignore policy. This is a beta-level feature default enabled by the NodeInclusionPolicyInPodTopologySpread feature flag.
`topologyKey`	`string`	TopologyKey is the key of node labels. Nodes that have a label with this key and identical values are considered to be in the same topology. We consider each <key, value> as a "bucket", and try to put balanced number of pods into each bucket.

Property	Type	Description
		We define a domain as a particular instance of a topology. Also, we define an eligible domain as a domain whose nodes meet the requirements of nodeAffinityPolicy and nodeTaintsPolicy. e.g. If TopologyKey is "kubernetes.io/hostname", each Node is a domain of that topology. And, if TopologyKey is "topology.kubernetes.io/zone", each zone is a domain of that topology. It's a required field.
`whenUnsatisfiable`	`string`	WhenUnsatisfiable indicates how to deal with a pod if it doesn't satisfy the spread constraint. • DoNotSchedule (default) tells the scheduler not to schedule it. • ScheduleAnyway tells the scheduler to schedule the pod in any location, but giving higher precedence to topologies that would help reduce the skew. A constraint is considered "Unsatisfiable" for an incoming pod if and only if every possible node assignment for that pod would violate "MaxSkew" on some topology. For example, in a 3-zone cluster, MaxSkew is set to 1, and pods with the same labelSelector spread as 3/1/1: | zone1 | zone2 | zone3 | | P P P | P | P | If WhenUnsatisfiable is set to DoNotSchedule, incoming pod can only be scheduled to zone2(zone3) to become 3/2/1(3/1/2) as ActualSkew(2-1) on zone2(zone3) satisfies MaxSkew(1). In other words, the cluster can still be imbalanced, but scheduler won't make it *more* imbalanced. It's a required field.

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector

Description

LabelSelector is used to find matching pods. Pods that match this label selector are counted to determine the number of pods in their corresponding topology domain.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.topologySpreadConstraints[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select the pods over which spreading will be calculated. The keys are used to lookup values from the incoming pod labels, those key-value labels are ANDed with labelSelector to select the group of existing pods over which spreading will be calculated for the incoming pod. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. MatchLabelKeys cannot be set when LabelSelector isn't set. Keys that don't exist in the incoming pod labels will be ignored. A null or empty list means only match against labelSelector. This is a beta field and requires the MatchLabelKeysInPodTopologySpread feature gate to be enabled (enabled by default).

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[].matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.volumes

Description

List of volumes that can be mounted by containers belonging to the pod. More info: https://kubernetes.io/docs/concepts/storage/volumes

Type

`array`

.spec.workloads[].template.spec.volumes[]

Description

Volume represents a named volume in a pod that may be accessed by any container in the pod.

Type

`object`

Required

`name`

Property	Type	Description
`awsElasticBlockStore`	`object`	awsElasticBlockStore represents an AWS Disk reso a kubelet's host machine and then exposed to the p https://kubernetes.io/docs/concepts/storage/volume ↗

Property	Type	Description
`azureDisk`	`object`	azureDisk represents an Azure Data Disk mount on mount to the pod.
`azureFile`	`object`	azureFile represents an Azure File Service mount or mount to the pod.
`cephfs`	`object`	cephFS represents a Ceph FS mount on the host tha lifetime
`cinder`	`object`	cinder represents a cinder volume attached and mou machine. More info: https://examples.k8s.io/mysql-c ↗
`configMap`	`object`	configMap represents a configMap that should popu
`csi`	`object`	csi (Container Storage Interface) represents epheme handled by certain external CSI drivers (Beta feature
`downwardAPI`	`object`	downwardAPI represents downward API about the p populate this volume

Property	Type	Description
`emptyDir`	`object`	emptyDir represents a temporary directory that shar More info: https://kubernetes.io/docs/concepts/stora ↗
`ephemeral`	`object`	ephemeral represents a volume that is handled by a The volume's lifecycle is tied to the pod that defines before the pod starts, and deleted when the pod is r Use this if: a) the volume is only needed while the p normal volumes like restoring from snapshot or capa needed, c) the storage driver is specified through a s the storage driver supports dynamic volume provisio PersistentVolumeClaim (see EphemeralVolumeSou information on the connection between this volume t PersistentVolumeClaim). Use PersistentVolumeClaim or one of the vendor-sp volumes that persist for longer than the lifecycle of a Use CSI for light-weight local ephemeral volumes if t meant to be used that way - see the documentation information. A pod can use both types of ephemeral volumes and at the same time.
`fc`	`object`	fc represents a Fibre Channel resource that is attach machine and then exposed to the pod.

Property	Type	Description
`flexVolume`	`object`	flexVolume represents a generic volume resource th provisioned/attached using an exec based plugin.
`flocker`	`object`	flocker represents a Flocker volume attached to a ku This depends on the Flocker control service being ru
`gcePersistentDisk`	`object`	gcePersistentDisk represents a GCE Disk resource kubelet's host machine and then exposed to the pod https://kubernetes.io/docs/concepts/storage/volumes
`gitRepo`	`object`	gitRepo represents a git repository at a particular rev GitRepo is deprecated. To provision a container with EmptyDir into an InitContainer that clones the repo u the EmptyDir into the Pod's container.
`glusterfs`	`object`	glusterfs represents a Glusterfs mount on the host th lifetime. More info: https://examples.k8s.io/volumes/ ↗
`hostPath`	`object`	hostPath represents a pre-existing file or directory o that is directly exposed to the container. This is gene agents or other privileged things that are allowed to Most containers will NOT need this. More info: https://kubernetes.io/docs/concepts/storage/volumes

Property	Type	Description
`image`	`object`	image represents an OCI object (a container image mounted on the kubelet's host machine. The volume startup depending on which PullPolicy value is provi • Always: the kubelet always attempts to pull the re creation will fail If the pull fails. • Never: the kubelet never pulls the reference and image or artifact. Container creation will fail if the present. • IfNotPresent: the kubelet pulls if the reference isr disk. Container creation will fail if the reference is pull fails. The volume gets re-resolved if the pod gets deleted means that new remote content will become availab failure to resolve or pull the image during pod startup from starting and may add significant latency. Failure normal volume backoff and will be reported on the p message. The types of objects that may be mounted defined by the container runtime implementation on minimum must include all valid types supported by tl field. The OCI object gets mounted in a single direct (spec.containers[*].volumeMounts.mountPath) by me *layers in the same way as for container images. The mounted read-only (ro) and non-executable files (no mounts for containers are not supported (spec.containers[*].volumeMounts.subpath). The field spec.securityContext.fsGroupChangePolicy has no e type.

Property	Type	Description
`iscsi`	`object`	iscsi represents an ISCSI Disk resource that is attac machine and then exposed to the pod. More info: https://examples.k8s.io/volumes/iscsi/README.md ↗
`name`	`string`	name of the volume. Must be a DNS_LABEL and un More info: https://kubernetes.io/docs/concepts/overv objects/names/#names ↗
`nfs`	`object`	nfs represents an NFS mount on the host that share info: https://kubernetes.io/docs/concepts/storage/vol
`persistentVolumeClaim`	`object`	persistentVolumeClaimVolumeSource represents a r PersistentVolumeClaim in the same namespace. Mo https://kubernetes.io/docs/concepts/storage/persiste volumes#persistentvolumeclaims ↗
`photonPersistentDisk`	`object`	photonPersistentDisk represents a PhotonController attached and mounted on kubelets host machine
`portworxVolume`	`object`	portworxVolume represents a portworx volume attac kubelets host machine
`projected`	`object`	projected items for all in one resources secrets, conf downward API

Property	Type	Description
`quobyte`	`object`	quobyte represents a Quobyte mount on the host tha lifetime
`rbd`	`object`	rbd represents a Rados Block Device mount on the pod's lifetime. More info: https://examples.k8s.io/volumes/rbd/README.md ↗
`scaleIO`	`object`	scaleIO represents a ScaleIO persistent volume atta Kubernetes nodes.
`secret`	`object`	secret represents a secret that should populate this https://kubernetes.io/docs/concepts/storage/volumes
`storageos`	`object`	storageOS represents a StorageOS volume attache Kubernetes nodes.
`vsphereVolume`	`object`	vsphereVolume represents a vSphere volume attach kubelets host machine

.spec.workloads[].template.spec.volumes[].awsElasticBlockStore

Description

awsElasticBlockStore represents an AWS Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info:

https://kubernetes.io/docs/concepts/storage/volumes#awselasticblockstore

Type

`object`

Required

`volumeID`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type of the volume that you want to mou Ensure that the filesystem type is supported by the host operatir Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if ur More info: https://kubernetes.io/docs/concepts/storage/volumes#awselastic ↗
`partition`	`integer`	partition is the partition in the volume that you want to mount. If the default is to mount by volume name. Examples: For volume you specify the partition as "1". Similarly, the volume partition for is "0" (or you can leave the property empty).
`readOnly`	`boolean`	readOnly value true will force the readOnly setting in VolumeMo info: https://kubernetes.io/docs/concepts/storage/volumes#awselastic ↗
`volumeID`	`string`	volumeID is unique ID of the persistent disk resource in AWS (A EBS volume). More info: https://kubernetes.io/docs/concepts/storage/volumes#awselastic ↗

.spec.workloads[].template.spec.volumes[].azureDisk

Description

azureDisk represents an Azure Data Disk mount on the host and bind mount to the pod.

Type

`object`

Required

`diskName` `diskURI`

Property	Type	Description
`cachingMode`	`string`	cachingMode is the Host Caching mode: None, Read Only, Read Write.
`diskName`	`string`	diskName is the Name of the data disk in the blob storage
`diskURI`	`string`	diskURI is the URI of data disk in the blob storage
`fsType`	`string`	fsType is Filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`kind`	`string`	kind expected values are Shared: multiple blob disks per storage account Dedicated: single blob disk per storage account Managed: azure managed data disk (only in managed availability set). defaults to shared

Property	Type	Description
`readOnly`	`boolean`	readOnly Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.

.spec.workloads[].template.spec.volumes[].azureFile

Description

azureFile represents an Azure File Service mount on the host and bind mount to the pod.

Type

`object`

Required

`secretName` `shareName`

Property	Type	Description
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretName`	`string`	secretName is the name of secret that contains Azure Storage Account Name and Key
`shareName`	`string`	shareName is the azure share Name

.spec.workloads[].template.spec.volumes[].cephfs

Description

cephFS represents a Ceph FS mount on the host that shares a pod's lifetime

Type

`object`

Required

`monitors`

Property	Type	Description
`monitors`	`array`	monitors is Required: Monitors is a collection of Ceph monitors More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
`path`	`string`	path is Optional: Used as the mounted root, rather than the full Ceph tree, default is /
`readOnly`	`boolean`	readOnly is Optional: Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
`secretFile`	`string`	secretFile is Optional: SecretFile is the path to key ring for User, default is /etc/ceph/user.secret More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗

Property	Type	Description
`secretRef`	`object`	secretRef is Optional: SecretRef is reference to the authentication secret for User, default is empty. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
`user`	`string`	user is optional: User is the rados user name, default is admin More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗

.spec.workloads[].template.spec.volumes[].cephfs.monitors

Description

monitors is Required: Monitors is a collection of Ceph monitors More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it

Type

`array`

.spec.workloads[].template.spec.volumes[].cephfs.monitors[]

Type

`string`

.spec.workloads[].template.spec.volumes[].cephfs.secretRef

Description

secretRef is Optional: SecretRef is reference to the authentication secret for User, default is empty. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].cinder

Description

cinder represents a cinder volume attached and mounted on kubelets host machine. More info: https://examples.k8s.io/mysql-cinder-pd/README.md

Type

`object`

Required

`volumeID`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗
`secretRef`	`object`	secretRef is optional: points to a secret object containing parameters used to connect to OpenStack.
`volumeID`	`string`	volumeID used to identify the volume in cinder. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗

.spec.workloads[].template.spec.volumes[].cinder.secretRef

Description

secretRef is optional: points to a secret object containing parameters used to connect to OpenStack.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].configMap

Description

configMap represents a configMap that should populate this volume

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	defaultMode is optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`items`	`array`	items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified

Property	Type	Description
		paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	optional specify whether the ConfigMap or its keys must be defined

.spec.workloads[].template.spec.volumes[].configMap.items

Description

items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].configMap.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].csi

Description

csi (Container Storage Interface) represents ephemeral storage that is handled by certain external CSI drivers (Beta feature).

Type

`object`

Required

`driver`

Property	Type	Description
`driver`	`string`	driver is the name of the CSI driver that handles this volume. Consult with your admin for the correct name as registered in the cluster.
`fsType`	`string`	fsType to mount. Ex. "ext4", "xfs", "ntfs". If not provided, the empty value is passed to the associated CSI driver which will determine the default filesystem to apply.
`nodePublishSecretRef`	`object`	nodePublishSecretRef is a reference to the secret object containing sensitive information to pass to the CSI driver to complete the CSI NodePublishVolume and NodeUnpublishVolume calls. This field is optional, and may be empty if no secret is required. If the secret object contains more than one secret, all secret references are passed.
`readOnly`	`boolean`	readOnly specifies a read-only configuration for the volume. Defaults to false (read/write).

Property	Type	Description
`volumeAttributes`	`object`	volumeAttributes stores driver-specific properties that are passed to the CSI driver. Consult your driver's documentation for supported values.

.spec.workloads[].template.spec.volumes[].csi.nodePublishSecretRef

Description

nodePublishSecretRef is a reference to the secret object containing sensitive information to pass to the CSI driver to complete the CSI NodePublishVolume and NodeUnpublishVolume calls. This field is optional, and may be empty if no secret is required. If the secret object contains more than one secret, all secret references are passed.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].csi.volumeAttributes

Description

volumeAttributes stores driver-specific properties that are passed to the CSI driver. Consult your driver's documentation for supported values.

Type

`object`

.spec.workloads[].template.spec.volumes[].downwardAPI

Description

downwardAPI represents downward API about the pod that should populate this volume

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	Optional: mode bits to use on created files by default. Must be a Optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`items`	`array`	Items is a list of downward API volume file

.spec.workloads[].template.spec.volumes[].downwardAPI.items

Description

Items is a list of downward API volume file

Type

`array`

.spec.workloads[].template.spec.volumes[].downwardAPI.items[]

Description

DownwardAPIVolumeFile represents information to create the file containing the pod field

Type

`object`

Required

`path`

Property	Type	Description
`fieldRef`	`object`	Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.
`mode`	`integer`	Optional: mode bits used to set permissions on this file, must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.

Property	Type	Description
`path`	`string`	Required: Path is the relative path name of the file to be created. Must not be absolute or contain the '..' path. Must be utf-8 encoded. The first item of the relative path must not start with '..'
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

.spec.workloads[].template.spec.volumes[].downwardAPI.items[].fieldRef

Description

Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".

Property	Type	Description
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.volumes[].downwardAPI.items[].resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.volumes[].emptyDir

Description

emptyDir represents a temporary directory that shares a pod's lifetime. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir

Type

`object`

Property	Type	Description
`medium`	`string`	medium represents what type of storage medium should back this directory. The default is "" which means to use the node's default medium. Must be an empty string (default) or Memory. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir ↗
`sizeLimit`		sizeLimit is the total amount of local storage required for this EmptyDir volume. The size limit is also applicable for memory medium. The maximum usage on memory medium EmptyDir would be the minimum value between the SizeLimit specified here and the sum of memory limits of all containers in a pod. The default is nil which means that the limit is undefined. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir ↗

.spec.workloads[].template.spec.volumes[].ephemeral

Description

ephemeral represents a volume that is handled by a cluster storage driver. The volume's lifecycle is tied to the pod that defines it - it will be created before the pod starts, and deleted when the pod is removed. Use this if: a) the volume is only needed while the pod runs, b) features of normal volumes like restoring from snapshot or capacity tracking are needed, c) the storage driver is specified through a storage class, and d) the storage driver supports dynamic volume provisioning through a PersistentVolumeClaim (see

EphemeralVolumeSource for more information on the connection between this volume type and PersistentVolumeClaim). Use PersistentVolumeClaim or one of the vendor-specific APIs for volumes that persist for longer than the lifecycle of an individual pod. Use CSI for light-weight local ephemeral volumes if the CSI driver is meant to be used that way - see the documentation of the driver for more information. A pod can use both types of ephemeral volumes and persistent volumes at the same time.

Type

`object`

Property	Type	Description
`volumeClaimTemplate`	`object`	Will be used to create a stand-alone PVC to provision the volume. The pod in which this EphemeralVolumeSource is embedded will be the owner of the PVC, i.e. the PVC will be deleted together with the pod. The name of the PVC will be `<pod name>-<volume name>` where `<volume name>` is the name from the `PodSpec.Volumes` array entry. Pod validation will reject the pod if the concatenated name is not valid for a PVC (for example, too long). An existing PVC with that name that is not owned by the pod will *not* be used for the pod to avoid using an unrelated volume by mistake. Starting the pod is then blocked until the unrelated PVC is removed. If such a pre-created PVC is meant to be used by the pod, the PVC has to updated with an owner reference to the pod once the pod exists. Normally this should not be necessary, but it may be useful when manually reconstructing a broken cluster. This field is read-only and no changes will be made by Kubernetes to the PVC after it has been created.

Property	Type	Description
		Required, must not be nil.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate

Description

Will be used to create a stand-alone PVC to provision the volume. The pod in which this EphemeralVolumeSource is embedded will be the owner of the PVC, i.e. the PVC will be deleted together with the pod. The name of the PVC will be `<pod name>-<volume name>` where `<volume name>` is the name from the `PodSpec.Volumes` array entry. Pod validation will reject the pod if the concatenated name is not valid for a PVC (for example, too long). An existing PVC with that name that is not owned by the pod will *not* be used for the pod to avoid using an unrelated volume by mistake. Starting the pod is then blocked until the unrelated PVC is removed. If such a pre-created PVC is meant to be used by the pod, the PVC has to updated with an owner reference to the pod once the pod exists. Normally this should not be necessary, but it may be useful when manually reconstructing a broken cluster. This field is read-only and no changes will be made by Kubernetes to the PVC after it has been created. Required, must not be nil.

Type

`object`

Required

`spec`

Property	Type	Description
`metadata`	`ObjectMeta↗`	May contain labels and annotations that will be copied into the PVC when creating it. No other fields are allowed and will be rejected during validation.

Property	Type	Description
`spec`	`object`	The specification for the PersistentVolumeClaim. The entire content is copied unchanged into the PVC that gets created from this template. The same fields as in a PersistentVolumeClaim are also valid here.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec

Description

The specification for the PersistentVolumeClaim. The entire content is copied unchanged into the PVC that gets created from this template. The same fields as in a PersistentVolumeClaim are also valid here.

Type

`object`

Property	Type	Description
`accessModes`	`array`	accessModes contains the desired access mod volume should have. More info: https://kubernetes.io/docs/concepts/storage/per volumes#access-modes-1 ↗
`dataSource`	`object`	dataSource field can be used to specify either: • An existing VolumeSnapshot object (snapshot.storage.k8s.io/VolumeSnapshot) • An existing PVC (PersistentVolumeClaim) If provisioner or an external controller can sup the specified data source, it will create a nev

Property	Type	Description
		volume based on the contents of the specifie source. When the AnyVolumeDataSource fe gate is enabled, dataSource contents will be to dataSourceRef, and dataSourceRef conte be copied to dataSource when dataSourceRef.namespace is not specified. namespace is specified, then dataSourceRe not be copied to dataSource.
`dataSourceRef`	`object`	dataSourceRef specifies the object from which populate the volume with data, if a non-empty v is desired. This may be any object from a non-e API group (non core object) or a PersistentVolumeClaim object. When this field i specified, volume binding will only succeed if th of the specified object matches some installed v populator or dynamic provisioner. This field will the functionality of the dataSource field and as both fields are non-empty, they must have the s value. For backwards compatibility, when name isn't specified in dataSourceRef, both fields (dataSource and dataSourceRef) will be set to t same value automatically if one of them is empt the other is non-empty. When namespace is sp in dataSourceRef, dataSource isn't set to the sa value and must be empty. There are three impo differences between dataSource and dataSourc • While dataSource only allows two specific ty objects, dataSourceRef allows any non-core as well as PersistentVolumeClaim objects. • While dataSource ignores disallowed values (dropping them), dataSourceRef preserves a

Property	Type	Description
		values, and generates an error if a disallowe value is specified. • While dataSource only allows local objects, dataSourceRef allows objects in any names (Beta) Using this field requires the AnyVolumeDataSource feature gate to be er (Alpha) Using the namespace field of dataSourceRef requires the CrossNamespaceVolumeDataSource featur to be enabled.
`resources`	`object`	resources represents the minimum resources th volume should have. If RecoverVolumeExpansionFailure feature is ena users are allowed to specify resource requireme that are lower than previous value but must still higher than capacity recorded in the status field claim. More info: https://kubernetes.io/docs/concepts/storage/per volumes#resources ↗
`selector`	`object`	selector is a label query over volumes to consid binding.
`storageClassName`	`string`	storageClassName is the name of the StorageC required by the claim. More info: https://kubernetes.io/docs/concepts/storage/per volumes#class-1 ↗

Property	Type	Description
`volumeAttributesClassName`	`string`	volumeAttributesClassName may be used to se VolumeAttributesClass used by this claim. If spe the CSI driver will create or update the volume attributes defined in the corresponding VolumeAttributesClass. This has a different pur than storageClassName, it can be changed afte claim is created. An empty string value means t VolumeAttributesClass will be applied to the cla it's not allowed to reset this field to empty string is set. If unspecified and the PersistentVolumeC unbound, the default VolumeAttributesClass wil by the persistentvolume controller if it exists. If t resource referred to by volumeAttributesClass d not exist, this PersistentVolumeClaim will be se Pending state, as reflected by the modifyVolum field, until such as a resource exists. More info: https://kubernetes.io/docs/concepts/storage/vol attributes-classes/↗ (Beta) Using this field requ the VolumeAttributesClass feature gate to be en (off by default).
`volumeMode`	`string`	volumeMode defines what type of volume is req by the claim. Value of Filesystem is implied whe included in claim spec.
`volumeName`	`string`	volumeName is the binding reference to the PersistentVolume backing this claim.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.accessModes

Description

accessModes contains the desired access modes the volume should have. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#access-modes-1

Type

`array`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.accessModes[]

Type

`string`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.dataSource

Description

dataSource field can be used to specify either: * An existing VolumeSnapshot object (snapshot.storage.k8s.io/VolumeSnapshot) * An existing PVC (PersistentVolumeClaim) If the provisioner or an external controller can support the specified data source, it will create a new volume based on the contents of the specified data source. When the AnyVolumeDataSource feature gate is enabled, dataSource contents will be copied to dataSourceRef, and dataSourceRef contents will be copied to dataSource when dataSourceRef.namespace is not specified. If the namespace is specified, then dataSourceRef will not be copied to dataSource.

Type

`object`

Required

`kind` `name`

Property	Type	Description
`apiGroup`	`string`	APIGroup is the group for the resource being referenced. If APIGroup is not specified, the specified Kind must be in the core API group. For any other third-party types, APIGroup is required.
`kind`	`string`	Kind is the type of resource being referenced
`name`	`string`	Name is the name of resource being referenced

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.dataSourceRef

Description

dataSourceRef specifies the object from which to populate the volume with data, if a non-empty volume is desired. This may be any object from a non-empty API group (non core object) or a PersistentVolumeClaim object. When this field is specified, volume binding will only succeed if the type of the specified object matches some installed volume populator or dynamic provisioner. This field will replace the functionality of the dataSource field and as such if both fields are non-empty, they must have the same value. For backwards compatibility, when namespace isn't specified in dataSourceRef, both fields (dataSource and dataSourceRef) will be set to the same value automatically if one of them is empty and the other is non-empty. When namespace is specified in dataSourceRef, dataSource isn't set to the same value and must be empty. There are three important differences between dataSource and dataSourceRef: * While dataSource only allows two specific types of objects, dataSourceRef allows any non-core object, as well as PersistentVolumeClaim objects. * While dataSource ignores disallowed values (dropping them), dataSourceRef preserves all values, and generates an error if a disallowed value is specified. * While dataSource only allows local objects, dataSourceRef allows objects in any namespaces. (Beta) Using this field requires the AnyVolumeDataSource feature gate to be enabled.

(Alpha) Using the namespace field of dataSourceRef requires the CrossNamespaceVolumeDataSource feature gate to be enabled.

Type

`object`

Required

`kind` `name`

Property	Type	Description
`apiGroup`	`string`	APIGroup is the group for the resource being referenced. If APIGroup is not specified, the specified Kind must be in the core API group. For any other third-party types, APIGroup is required.
`kind`	`string`	Kind is the type of resource being referenced
`name`	`string`	Name is the name of resource being referenced
`namespace`	`string`	Namespace is the namespace of resource being referenced Note that when a namespace is specified, a gateway.networking.k8s.io/ReferenceGrant object is required in the referent namespace to allow that namespace's owner to accept the reference. See the ReferenceGrant documentation for details. (Alpha) This field requires the CrossNamespaceVolumeDataSource feature gate to be enabled.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources

Description

resources represents the minimum resources the volume should have. If RecoverVolumeExpansionFailure feature is enabled users are allowed to specify resource requirements that are lower than previous value but must still be higher than capacity recorded in the status field of the claim. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#resources

Type

`object`

Property	Type	Description
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector

Description

selector is a label query over volumes to consider for binding.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.

Property	Type	Description
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.volumes[].fc

Description

fc represents a Fibre Channel resource that is attached to a kubelet's host machine and then exposed to the pod.

Type

`object`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`lun`	`integer`	lun is Optional: FC target lun number
`readOnly`	`boolean`	readOnly is Optional: Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in

Property	Type	Description
		VolumeMounts.
`targetWWNs`	`array`	targetWWNs is Optional: FC target worldwide names (WWNs)
`wwids`	`array`	wwids Optional: FC volume world wide identifiers (wwids) Either wwids or combination of targetWWNs and lun must be set, but not both simultaneously.

.spec.workloads[].template.spec.volumes[].fc.targetWWNs

Description

targetWWNs is Optional: FC target worldwide names (WWNs)

Type

`array`

.spec.workloads[].template.spec.volumes[].fc.targetWWNs[]

Type

`string`

.spec.workloads[].template.spec.volumes[].fc.wwids

Description

wwids Optional: FC volume world wide identifiers (wwids) Either wwids or combination of targetWWNs and lun must be set, but not both simultaneously.

Type

`array`

.spec.workloads[].template.spec.volumes[].fc.wwids[]

Type

`string`

.spec.workloads[].template.spec.volumes[].flexVolume

Description

flexVolume represents a generic volume resource that is provisioned/attached using an exec based plugin.

Type

`object`

Required

`driver`

Property	Type	Description
`driver`	`string`	driver is the name of the driver to use for this volume.
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". The default filesystem depends on FlexVolume script.
`options`	`object`	options is Optional: this field holds extra command options if any.

Property	Type	Description
`readOnly`	`boolean`	readOnly is Optional: defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretRef`	`object`	secretRef is Optional: secretRef is reference to the secret object containing sensitive information to pass to the plugin scripts. This may be empty if no secret object is specified. If the secret object contains more than one secret, all secrets are passed to the plugin scripts.

.spec.workloads[].template.spec.volumes[].flexVolume.options

Description

options is Optional: this field holds extra command options if any.

Type

`object`

.spec.workloads[].template.spec.volumes[].flexVolume.secretRef

Description

secretRef is Optional: secretRef is reference to the secret object containing sensitive information to pass to the plugin scripts. This may be empty if no secret object is specified. If the secret object contains more than one secret, all secrets are passed to the plugin scripts.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].flocker

Description

flocker represents a Flocker volume attached to a kubelet's host machine. This depends on the Flocker control service being running

Type

`object`

Property	Type	Description
`datasetName`	`string`	datasetName is Name of the dataset stored as metadata -> name on the dataset for Flocker should be considered as deprecated
`datasetUUID`	`string`	datasetUUID is the UUID of the dataset. This is unique identifier of a Flocker dataset

.spec.workloads[].template.spec.volumes[].gcePersistentDisk

Description

gcePersistentDisk represents a GCE Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersistentdisk

Type

`object`

Required

`pdName`

Property	Type	Description
`fsType`	`string`	fsType is filesystem type of the volume that you want to mount. Ensure that the filesystem type is supported by the host operatir system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "e unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗
`partition`	`integer`	partition is the partition in the volume that you want to mount. If omitted, the default is to mount by volume name. Examples: For volume /dev/sda1, you specify the partition as "1". Similarly, the partition for /dev/sda is "0" (or you can leave the property empty info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗
`pdName`	`string`	pdName is unique name of the PD resource in GCE. Used to ide the disk in GCE. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly here will force the ReadOnly setting in VolumeMounts Defaults to false. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗

.spec.workloads[].template.spec.volumes[].gitRepo

Description

gitRepo represents a git repository at a particular revision. DEPRECATED: GitRepo is deprecated. To provision a container with a git repo, mount an EmptyDir into an InitContainer that clones the repo using git, then mount the EmptyDir into the Pod's container.

Type

`object`

Required

`repository`

Property	Type	Description
`directory`	`string`	directory is the target directory name. Must not contain or start with '..'. If '.' is supplied, the volume directory will be the git repository. Otherwise, if specified, the volume will contain the git repository in the subdirectory with the given name.
`repository`	`string`	repository is the URL

Property	Type	Description
`revision`	`string`	revision is the commit hash for the specified revision.

.spec.workloads[].template.spec.volumes[].glusterfs

Description

glusterfs represents a Glusterfs mount on the host that shares a pod's lifetime. More info: https://examples.k8s.io/volumes/glusterfs/README.md

Type

`object`

Required

`endpoints` `path`

Property	Type	Description
`endpoints`	`string`	endpoints is the endpoint name that details Glusterfs topology. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗
`path`	`string`	path is the Glusterfs volume path. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly here will force the Glusterfs volume to be mounted with read-only permissions. Defaults to false. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗

.spec.workloads[].template.spec.volumes[].hostPath

Description

hostPath represents a pre-existing file or directory on the host machine that is directly exposed to the container. This is generally used for system agents or other privileged things that are allowed to see the host machine. Most containers will NOT need this. More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath

Type

`object`

Required

`path`

Property	Type	Description
`path`	`string`	path of the directory on the host. If the path is a symlink, it will follow the link to the real path. More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath ↗
`type`	`string`	type for HostPath Volume Defaults to "" More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath ↗

.spec.workloads[].template.spec.volumes[].image

Description

image represents an OCI object (a container image or artifact) pulled and mounted on the kubelet's host machine. The volume is resolved at pod startup depending on which PullPolicy value is provided: - Always: the kubelet always attempts to pull the reference. Container creation will fail If the pull fails. - Never: the kubelet never pulls the reference and only uses a local image or artifact. Container creation will fail if the reference isn't present. - IfNotPresent: the kubelet pulls if the reference isn't already present on disk. Container creation will fail if the reference isn't present and the pull fails. The volume gets re-resolved if the pod gets deleted and recreated, which means that new remote content will become available on pod recreation. A failure to resolve or pull the image during pod startup will block containers from starting and may add significant latency. Failures will be retried using normal volume backoff and will be reported on the pod reason and message. The types of objects that may be mounted by this volume are defined by the container runtime implementation on a host machine and at minimum must include all valid types supported by the container image field. The OCI object gets mounted in a single directory (spec.containers[*].volumeMounts.mountPath) by merging the manifest layers in the same way as for container images. The volume will be mounted read-only (ro) and non-executable files (noexec). Sub path mounts for containers are not supported (spec.containers[*].volumeMounts.subpath). The field spec.securityContext.fsGroupChangePolicy has no effect on this volume type.

Type

`object`

Property	Type	Description
`pullPolicy`	`string`	Policy for pulling OCI objects. Possible values are: Always: the kubelet always attempts to pull the reference. Container creation will fail If the pull fails. Never: the kubelet never pulls the reference and only uses a local image or artifact. Container creation will fail if the reference isn't present. IfNotPresent: the kubelet pulls if the reference isn't already present on disk. Container creation will fail if the reference isn't present and the pull fails. Defaults to Always if :latest tag is specified, or IfNotPresent otherwise.
`reference`	`string`	Required: Image or artifact reference to be used. Behaves in the same way as pod.spec.containers[*].image. Pull secrets will be assembled in the same way as for the container image by looking up node credentials, SA image pull secrets, and pod spec image pull secrets. More info: https://kubernetes.io/docs/concepts/containers/images ↗ This field is optional to allow higher level config management to default or override container images in workload controllers like Deployments and StatefulSets.

.spec.workloads[].template.spec.volumes[].iscsi

Description

iscsi represents an ISCSI Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info: https://examples.k8s.io/volumes/iscsi/README.md

Type

`object`

Required

`iqn` `lun` `targetPortal`

Property	Type	Description
`chapAuthDiscovery`	`boolean`	chapAuthDiscovery defines whether support iSCSI Discovery CHAP authentication
`chapAuthSession`	`boolean`	chapAuthSession defines whether support iSCSI Sessior CHAP authentication
`fsType`	`string`	fsType is the filesystem type of the volume that you want to mount. Tip: Ensure that the filesystem type is supporte by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#isc ↗
`initiatorName`	`string`	initiatorName is the custom iSCSI Initiator Name. If initiatorName is specified with iscsiInterface simultaneously, new iSCSI interface : will be created for the connection.
`iqn`	`string`	iqn is the target iSCSI Qualified Name.
`iscsiInterface`	`string`	iscsiInterface is the interface Name that uses an iSCSI transport. Defaults to 'default' (tcp).
`lun`	`integer`	lun represents iSCSI Target Lun number.

Property	Type	Description
`portals`	`array`	portals is the iSCSI Target Portal List. The portal is either an IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).
`readOnly`	`boolean`	readOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false.
`secretRef`	`object`	secretRef is the CHAP Secret for iSCSI target and initiato authentication
`targetPortal`	`string`	targetPortal is iSCSI Target Portal. The Portal is either ar IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).

.spec.workloads[].template.spec.volumes[].iscsi.portals

Description

portals is the iSCSI Target Portal List. The portal is either an IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).

Type

`array`

.spec.workloads[].template.spec.volumes[].iscsi.portals[]

Type

`string`

.spec.workloads[].template.spec.volumes[].iscsi.secretRef

Description

secretRef is the CHAP Secret for iSCSI target and initiator authentication

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].nfs

Description

nfs represents an NFS mount on the host that shares a pod's lifetime More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs

Type

`object`

Required

`path` `server`

Property	Type	Description
`path`	`string`	path that is exported by the NFS server. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly here will force the NFS export to be mounted with read-only permissions. Defaults to false. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗
`server`	`string`	server is the hostname or IP address of the NFS server. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗

.spec.workloads[].template.spec.volumes[].persistentVolumeClaim

Description

persistentVolumeClaimVolumeSource represents a reference to a PersistentVolumeClaim in the same namespace. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#persistentvolumeclaims

Type

`object`

Required

`claimName`

Property	Type	Description
`claimName`	`string`	claimName is the name of a PersistentVolumeClaim in the same namespace as the pod using this volume. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#persistentvolumeclaims ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly Will force the ReadOnly setting in VolumeMounts. Default false.

.spec.workloads[].template.spec.volumes[].photonPersistentDisk

Description

photonPersistentDisk represents a PhotonController persistent disk attached and mounted on kubelets host machine

Type

`object`

Required

`pdID`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`pdID`	`string`	pdID is the ID that identifies Photon Controller persistent disk

.spec.workloads[].template.spec.volumes[].portworxVolume

Description

portworxVolume represents a portworx volume attached and mounted on kubelets host machine

Type

`object`

Required

`volumeID`

Property	Type	Description
`fsType`	`string`	fSType represents the filesystem type to mount Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs". Implicitly inferred to be "ext4" if unspecified.
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`volumeID`	`string`	volumeID uniquely identifies a Portworx volume

.spec.workloads[].template.spec.volumes[].projected

Description

projected items for all in one resources secrets, configmaps, and downward API

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	defaultMode are the mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`sources`	`array`	sources is the list of volume projections. Each entry in this list handles one source.

.spec.workloads[].template.spec.volumes[].projected.sources

Description

sources is the list of volume projections. Each entry in this list handles one source.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[]

Description

Projection that may be projected along with other supported volume types. Exactly one of these fields must be set.

Type

`object`

Property	Type	Description
`clusterTrustBundle`	`object`	ClusterTrustBundle allows a pod to access the `.spec.trustBundle` field of ClusterTrustBundle objects in an auto-updating file. Alpha, gated by the ClusterTrustBundleProjection feature gate. ClusterTrustBundle objects can either be selected by name, or by the combination of signer name and a label selector. Kubelet performs aggressive normalization of the PEM contents written into the pod filesystem. Esoteric PEM features such as inter-block comments and block headers are stripped. Certificates are deduplicated. The ordering of certificates within the file is arbitrary, and Kubelet may change the order over time.
`configMap`	`object`	configMap information about the configMap data to project
`downwardAPI`	`object`	downwardAPI information about the downwardAPI data to project
`secret`	`object`	secret information about the secret data to project

Property	Type	Description
`serviceAccountToken`	`object`	serviceAccountToken is information about the serviceAccountToken data to project

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle

Description

ClusterTrustBundle allows a pod to access the `.spec.trustBundle` field of ClusterTrustBundle objects in an auto-updating file. Alpha, gated by the ClusterTrustBundleProjection feature gate. ClusterTrustBundle objects can either be selected by name, or by the combination of signer name and a label selector. Kubelet performs aggressive normalization of the PEM contents written into the pod filesystem. Esoteric PEM features such as inter-block comments and block headers are stripped. Certificates are deduplicated. The ordering of certificates within the file is arbitrary, and Kubelet may change the order over time.

Type

`object`

Required

`path`

Property	Type	Description
`labelSelector`	`object`	Select all ClusterTrustBundles that match this label selector. Only has effect if signerName is set. Mutually-exclusive with name. If unset, interpreted as "match nothing". If set but empty, interpreted as "match everything".

Property	Type	Description
`name`	`string`	Select a single ClusterTrustBundle by object name. Mutually-exclusive with signerName and labelSelector.
`optional`	`boolean`	If true, don't block pod startup if the referenced ClusterTrustBundle(s) aren't available. If using name, then the named ClusterTrustBundle is allowed not to exist. If using signerName, then the combination of signerName and labelSelector is allowed to match zero ClusterTrustBundles.
`path`	`string`	Relative path from the volume root to write the bundle.
`signerName`	`string`	Select all ClusterTrustBundles that match this signer name. Mutually-exclusive with name. The contents of all selected ClusterTrustBundles will be unified and deduplicated.

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector

Description

Select all ClusterTrustBundles that match this label selector. Only has effect if signerName is set. Mutually-exclusive with name. If unset, interpreted as "match nothing". If set but empty, interpreted as "match everything".

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.volumes[].projected.sources[].configMap

Description

configMap information about the configMap data to project

Type

`object`

Property	Type	Description
`items`	`array`	items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	optional specify whether the ConfigMap or its keys must be defined

.spec.workloads[].template.spec.volumes[].projected.sources[].configMap.items

Description

items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will

error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].configMap.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.

Property	Type	Description
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI

Description

downwardAPI information about the downwardAPI data to project

Type

`object`

Property	Type	Description
`items`	`array`	Items is a list of DownwardAPIVolume file

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items

Description

Items is a list of DownwardAPIVolume file

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items[]

Description

DownwardAPIVolumeFile represents information to create the file containing the pod field

Type

`object`

Required

`path`

Property	Type	Description
`fieldRef`	`object`	Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.
`mode`	`integer`	Optional: mode bits used to set permissions on this file, must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	Required: Path is the relative path name of the file to be created. Must not be absolute or contain the '..' path. Must be utf-8 encoded. The first item of the relative path must not start with '..'
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory,

Property	Type	Description
		requests.cpu and requests.memory) are currently supported.

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items[].fieldRef

Description

Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items[].resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.volumes[].projected.sources[].secret

Description

secret information about the secret data to project

Type

`object`

Property	Type	Description
`items`	`array`	items if unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified

Property	Type	Description
		paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	optional field specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.volumes[].projected.sources[].secret.items

Description

items if unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].secret.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].projected.sources[].serviceAccountToken

Description

serviceAccountToken is information about the serviceAccountToken data to project

Type

`object`

Required

`path`

Property	Type	Description
`audience`	`string`	audience is the intended audience of the token. A recipient of a token must identify itself with an identifier specified in the audience of the token, and otherwise should reject the token. The audience defaults to the identifier of the apiserver.
`expirationSeconds`	`integer`	expirationSeconds is the requested duration of validity of the service account token. As the token approaches expiration, the kubelet volume plugin will proactively rotate the service account token. The kubelet will start trying to rotate the token if the token is older than 80 percent of its time to live or if the token is older than 24 hours.Defaults to 1 hour and must be at least 10 minutes.
`path`	`string`	path is the path relative to the mount point of the file to project the token into.

.spec.workloads[].template.spec.volumes[].quobyte

Description

quobyte represents a Quobyte mount on the host that shares a pod's lifetime

Type

`object`

Required

`registry` `volume`

Property	Type	Description
`group`	`string`	group to map volume access to Default is no group
`readOnly`	`boolean`	readOnly here will force the Quobyte volume to be mounted with read-only permissions. Defaults to false.
`registry`	`string`	registry represents a single or multiple Quobyte Registry services specified as a string as host:port pair (multiple entries are separated with commas) which acts as the central registry for volumes
`tenant`	`string`	tenant owning the given Quobyte volume in the Backend Used with dynamically provisioned Quobyte volumes, value is set by the plugin
`user`	`string`	user to map volume access to Defaults to serivceaccount user
`volume`	`string`	volume is a string that references an already created Quobyte volume by name.

.spec.workloads[].template.spec.volumes[].rbd

Description

rbd represents a Rados Block Device mount on the host that shares a pod's lifetime. More info: https://examples.k8s.io/volumes/rbd/README.md

Type

`object`

Required

`image` `monitors`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type of the volume that you want to mount. Tip: Ensure that the filesystem type is supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#rbd ↗
`image`	`string`	image is the rados image name. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`keyring`	`string`	keyring is the path to key ring for RBDUser. Default is /etc/ceph/keyring. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗

Property	Type	Description
`monitors`	`array`	monitors is a collection of Ceph monitors. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`pool`	`string`	pool is the rados pool name. Default is rbd. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`readOnly`	`boolean`	readOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`secretRef`	`object`	secretRef is name of the authentication secret for RBDUser. If provided overrides keyring. Default is nil. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`user`	`string`	user is the rados user name. Default is admin. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗

.spec.workloads[].template.spec.volumes[].rbd.monitors

Description

monitors is a collection of Ceph monitors. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it

Type

`array`

.spec.workloads[].template.spec.volumes[].rbd.monitors[]

Type

`string`

.spec.workloads[].template.spec.volumes[].rbd.secretRef

Description

secretRef is name of the authentication secret for RBDUser. If provided overrides keyring. Default is nil. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].scaleIO

Description

scaleIO represents a ScaleIO persistent volume attached and mounted on Kubernetes nodes.

Type

`object`

Required

`gateway` `secretRef` `system`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Default is "xfs".
`gateway`	`string`	gateway is the host address of the ScaleIO API Gateway.
`protectionDomain`	`string`	protectionDomain is the name of the ScaleIO Protection Domain for the configured storage.
`readOnly`	`boolean`	readOnly Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretRef`	`object`	secretRef references to the secret for ScaleIO user and other sensitive information. If this is not provided, Login operation will fail.
`sslEnabled`	`boolean`	sslEnabled Flag enable/disable SSL communication with Gateway, default false

Property	Type	Description
`storageMode`	`string`	storageMode indicates whether the storage for a volume should be ThickProvisioned or ThinProvisioned. Default is ThinProvisioned.
`storagePool`	`string`	storagePool is the ScaleIO Storage Pool associated with the protection domain.
`system`	`string`	system is the name of the storage system as configured in ScaleIO.
`volumeName`	`string`	volumeName is the name of a volume already created in the ScaleIO system that is associated with this volume source.

.spec.workloads[].template.spec.volumes[].scaleIO.secretRef

Description

secretRef references to the secret for ScaleIO user and other sensitive information. If this is not provided, Login operation will fail.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty.

Property	Type	Description
		Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].secret

Description

secret represents a secret that should populate this volume. More info: https://kubernetes.io/docs/concepts/storage/volumes#secret

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	defaultMode is Optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`items`	`array`	items If unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume

Property	Type	Description
		setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`optional`	`boolean`	optional field specify whether the Secret or its keys must be defined
`secretName`	`string`	secretName is the name of the secret in the pod's namespace to use. More info: https://kubernetes.io/docs/concepts/storage/volumes#secret ↗

.spec.workloads[].template.spec.volumes[].secret.items

Description

items If unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].secret.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].storageos

Description

storageOS represents a StorageOS volume attached and mounted on Kubernetes nodes.

Type

`object`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretRef`	`object`	secretRef specifies the secret to use for obtaining the StorageOS API credentials. If not specified, default values will be attempted.
`volumeName`	`string`	volumeName is the human-readable name of the StorageOS volume. Volume names are only unique within a namespace.
`volumeNamespace`	`string`	volumeNamespace specifies the scope of the volume within StorageOS. If no namespace is specified then the Pod's namespace will be used. This allows the Kubernetes name scoping to be mirrored within StorageOS for tighter integration. Set VolumeName to any name to override the default behaviour. Set to "default" if you are not using namespaces within StorageOS. Namespaces that do not pre-exist within StorageOS will be created.

.spec.workloads[].template.spec.volumes[].storageos.secretRef

Description

secretRef specifies the secret to use for obtaining the StorageOS API credentials. If not specified, default values will be attempted.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].vsphereVolume

Description

vsphereVolume represents a vSphere volume attached and mounted on kubelets host machine

Type

`object`

Required

`volumePath`

Property	Type	Description
`fsType`	`string`	fsType is filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`storagePolicyID`	`string`	storagePolicyID is the storage Policy Based Management (SPBM) profile ID associated with the StoragePolicyName.
`storagePolicyName`	`string`	storagePolicyName is the storage Policy Based Management (SPBM) profile name.
`volumePath`	`string`	volumePath is the path that identifies vSphere volume vmdk

.status

Description

ComponentStatus defines the observed state of Connector

Type

`object`

Property	Type	Description
`annotations`	`object`	Annotations is additional Status fields for the Resource to save some additional State as well as convey more information to the user. This is

Property	Type	Description
		roughly akin to Annotations on any k8s resource, just the reconciler conveying richer information outwards.
`conditions`	`array`	Conditions the latest available observations of a resource's current state.
`observedGeneration`	`integer`	ObservedGeneration is the 'Generation' of the Service that was last processed by the controller.

.status.annotations

Description

Annotations is additional Status fields for the Resource to save some additional State as well as convey more information to the user. This is roughly akin to Annotations on any k8s resource, just the reconciler conveying richer information outwards.

Type

`object`

.status.conditions

Description

Conditions the latest available observations of a resource's current state.

Type

`array`

.status.conditions[]

Description

Condition defines a readiness condition for a Knative resource. See: https://github.com/kubernetes/community/blob/master/contributors/devel/sig-architecture/api-conventions.md#typical-status-properties

Type

`object`

Required

`status` `type`

Property	Type	Description
`lastTransitionTime`	`string`	LastTransitionTime is the last time the condition transitioned from one status to another. We use VolatileTime in place of metav1.Time to exclude this from creating equality.Semantic differences (all other things held constant).
`message`	`string`	A human readable message indicating details about the transition.
`reason`	`string`	The reason for the condition's last transition.
`severity`	`string`	Severity with which to treat failures of this type of condition. When this is not specified, it defaults to Error.
`status`	`string`	Status of the condition, one of True, False, Unknown.

Property	Type	Description
`type`	`string`	Type of condition.

API Endpoints

The following API endpoints are available:

- `/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsgits`
  - `DELETE`: delete collection of ConnectorsGit
  - `GET`: list objects of kind ConnectorsGit
  - `POST`: create a new ConnectorsGit
- `/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsgits/{name}`
  - `DELETE`: delete the specified ConnectorsGit
  - `GET`: read the specified ConnectorsGit
  - `PATCH`: partially update the specified ConnectorsGit
  - `PUT`: replace the specified ConnectorsGit
- `/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsgits/{name}/status`
  - `GET`: read status of the specified ConnectorsGit
  - `PATCH`: partially update status of the specified ConnectorsGit
  - `PUT`: replace status of the specified ConnectorsGit

/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsgits

HTTP method

`DELETE`

Description

delete collection of ConnectorsGit

HTTP responses

HTTP code	Response body
200 - OK	`Status↗` schema
401 - Unauthorized	Empty

HTTP method

`GET`

Description

list objects of kind ConnectorsGit

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsGitList` schema
401 - Unauthorized	Empty

HTTP method

`POST`

Description

create a new ConnectorsGit

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further

Parameter	Type	Description
		processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
`body`	`ConnectorsGit` schema	`application/json` formatted

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsGit` schema
201 - Created	`ConnectorsGit` schema
202 - Accepted	`ConnectorsGit` schema
401 - Unauthorized	Empty

/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsgits/{name}

HTTP method

`DELETE`

Description

delete the specified ConnectorsGit

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

HTTP responses

HTTP code	Response body
200 - OK	`Status↗` schema
202 - Accepted	`Status↗` schema
401 - Unauthorized	Empty

HTTP method

`GET`

Description

read the specified ConnectorsGit

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsGit` schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update the specified ConnectorsGit

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsGit` schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace the specified ConnectorsGit

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

Parameter	Type	Description
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
`body`	`ConnectorsGit` schema	`application/json` formatted

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsGit` schema
201 - Created	`ConnectorsGit` schema
401 - Unauthorized	Empty

/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsgits/{name}/status

HTTP method

`GET`

Description

read status of the specified ConnectorsGit

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsGit` schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update status of the specified ConnectorsGit

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields.

Parameter	Type	Description
		This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsGit` schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace status of the specified ConnectorsGit

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object,

Parameter	Type	Description
		and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
`body`	`ConnectorsGit` schema	`application/json` formatted

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsGit` schema
201 - Created	`ConnectorsGit` schema
401 - Unauthorized	Empty

ConnectorsK8S [operator.connectors.alauda.io/v1alpha1]

Description

ConnectorsK8S is the Schema for the ConnectorsK8Ss API.

Type

`object`

Specification

Property	Type	Description
`apiVersion`	`string`	APIVersion defines the versioned schema of this representation of an object. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources ↗
`kind`	`string`	Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint the client submits requests to. Cannot be updated. In CamelCase. More info:

Property	Type	Description
		https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds ↗
`metadata`	`ObjectMeta` ↗	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
`spec`	`object`	ConnectorsK8SSpec defines the desired state of ConnectorsK8S.
`status`	`object`	ComponentStatus defines the observed state of Connector

.spec

Description

ConnectorsK8SSpec defines the desired state of ConnectorsK8S.

Type

`object`

Property	Type	Description
`additionalManifests`	`string`	A means to specify the additional manifests to install, eg: http://example.com/manifests.yaml ↗
`annotations`	`object`	Annotations overrides labels for the namespace and its template.

Property	Type	Description
`labels`	`object`	Labels overrides labels for the namespace and its template.
`registry`	`string`	Registry overrides the default registry for the workloads. The registry is used to replace the prefix of the image. the image reference format is /:@.
`workloads`	`array`	Workloads overrides workloads configurations such as resources and replicas.

.spec.annotations

Description

Annotations overrides labels for the namespace and its template.

Type

`object`

.spec.labels

Description

Labels overrides labels for the namespace and its template.

Type

`object`

.spec.workloads

Description

Workloads overrides workloads configurations such as resources and replicas.

Type

`array`

.spec.workloads[]

Description

WorkloadOverride overrides the workload configurations.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name is the name of the deployment to override.
`replicas`	`integer`	Number of desired pods. This is a pointer to distinguish between explicit zero and not specified. Defaults to 1.
`template`	`object`	Template describes the pods that will be created. The only allowed template.spec.restartPolicy value is "Always".

.spec.workloads[].template

Description

Template describes the pods that will be created. The only allowed template.spec.restartPolicy value is "Always".

Type

`object`

Property	Type	Description
`metadata`	`ObjectMeta` ↗	Standard object's metadata. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#metadata ↗
`spec`	`object`	Specification of the desired behavior of the pod. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#spec-and-status ↗

.spec.workloads[].template.spec

Description

Specification of the desired behavior of the pod. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#spec-and-status

Type

`object`

Required

`containers`

Property	Type	Description
`activeDeadlineSeconds`	`integer`	Optional duration in seconds the pod may StartTime before the system will actively tr containers. Value must be a positive intege

Property	Type	Description
`affinity`	`object`	If specified, the pod's scheduling constrain
`automountServiceAccountToken`	`boolean`	AutomountServiceAccountToken indicates be automatically mounted.
`containers`	`array`	List of containers belonging to the pod. Co removed. There must be at least one conta
`dnsConfig`	`object`	Specifies the DNS parameters of a pod. Pa to the generated DNS configuration based
`dnsPolicy`	`string`	Set DNS policy for the pod. Defaults to "Cl 'ClusterFirstWithHostNet', 'ClusterFirst', 'De in DNSConfig will be merged with the polic DNS options set along with hostNetwork, y to 'ClusterFirstWithHostNet'.
`enableServiceLinks`	`boolean`	EnableServiceLinks indicates whether info injected into pod's environment variables, r Optional: Defaults to true.

Property	Type	Description
`ephemeralContainers`	`array`	List of ephemeral containers run in this poc an existing pod to perform user-initiated ac cannot be specified when creating a pod, a the pod spec. In order to add an ephemera pod's ephemeralcontainers subresource.
`hostAliases`	`array`	HostAliases is an optional list of hosts and hosts file if specified.
`hostIPC`	`boolean`	Use the host's ipc namespace. Optional: D
`hostNetwork`	`boolean`	Host networking requested for this pod. Us option is set, the ports that will be used mu
`hostPID`	`boolean`	Use the host's pid namespace. Optional: D
`hostUsers`	`boolean`	Use the host's user namespace. Optional: present, the pod will be run in the host use needs a feature only available to the host u kernel module with CAP_SYS_MODULE. V created for the pod. Setting false is useful f vulnerabilities even allowing users to run th having root privileges on the host. This fiel servers that enable the UserNamespacesS

Property	Type	Description
`hostname`	`string`	Specifies the hostname of the Pod If not sp to a system-defined value.
`imagePullSecrets`	`array`	ImagePullSecrets is an optional list of refer namespace to use for pulling any of the im these secrets will be passed to individual p More info: https://kubernetes.io/docs/conce imagepullsecrets-on-a-pod ↗
`initContainers`	`array`	List of initialization containers belonging to order prior to containers being started. If a considered to have failed and is handled a for an init container or normal container mu containers may not have Lifecycle actions, Startup probes. The resourceRequirement account during scheduling by finding the hi type, and then using the max of of that valu Limits are applied to init containers in a sim currently be added or removed. Cannot be https://kubernetes.io/docs/concepts/worklo
`nodeName`	`string`	NodeName indicates in which node this po candidate for scheduling by the scheduler field is set, the kubelet for this node becom pod. This field should not be used to expre on a specific node. https://kubernetes.io/dc pod-node/#nodename ↗

Property	Type	Description
`nodeSelector`	`object`	NodeSelector is a selector which must be t which must match a node's labels for the p info: https://kubernetes.io/docs/concepts/c
`os`	`object`	Specifies the OS of the containers in the p restricted if this is set. If the OS field is set to linux, the following f securityContext.windowsOptions If the OS field is set to windows, following f • spec.hostPID • spec.hostIPC • spec.hostUsers • spec.securityContext.appArmorProfile • spec.securityContext.seLinuxOptions • spec.securityContext.seccompProfile • spec.securityContext.fsGroup • spec.securityContext.fsGroupChangeP • spec.securityContext.sysctls • spec.shareProcessNamespace • spec.securityContext.runAsUser • spec.securityContext.runAsGroup • spec.securityContext.supplementalGrou • spec.securityContext.supplementalGrou • spec.containers[*].securityContext.appA • spec.containers[*].securityContext.seLi • spec.containers[*].securityContext.secc

Property	Type	Description
		• spec.containers[*].securityContext.capa • spec.containers[*].securityContext.read • spec.containers[*].securityContext.privil • spec.containers[*].securityContext.allov • spec.containers[*].securityContext.proc • spec.containers[*].securityContext.runA • spec.containers[*].securityContext.runA
`overhead`	`object`	Overhead represents the resource overhea given RuntimeClass. This field will be auto RuntimeClass admission controller. If the F enabled, overhead must not be set in Pod admission controller will reject Pod create already set. If RuntimeClass is configured will be set to the value defined in the corre remain unset and treated as zero. More inf https://git.k8s.io/enhancements/keps/sig-n
`preemptionPolicy`	`string`	PreemptionPolicy is the Policy for preempt Never, PreemptLowerPriority. Defaults to F
`priority`	`integer`	The priority value. Various system compon the pod. When Priority Admission Controlle setting this field. The admission controller PriorityClassName. The higher the value, t
`priorityClassName`	`string`	If specified, indicates the pod's priority. "sy critical" are two special keywords which inc

Property	Type	Description
		former being the highest priority. Any other PriorityClass object with that name. If not s or zero if there is no default.
`readinessGates`	`array`	If specified, all readiness gates will be eval when all its containers are ready AND all c gates have status equal to "True" More info https://git.k8s.io/enhancements/keps/sig-n
`resourceClaims`	`array`	ResourceClaims defines which ResourceC before the Pod is allowed to start. The resc containers which consume them by name. This is an alpha field and requires enablinç feature gate. This field is immutable.
`restartPolicy`	`string`	Restart policy for all containers within the p some contexts, only a subset of those valu More info: https://kubernetes.io/docs/conce lifecycle/#restart-policy ↗
`runtimeClassName`	`string`	RuntimeClassName refers to a RuntimeCl which should be used to run this pod. If no named class, the pod will not be run. If uns will be used, which is an implicit class with default runtime handler. More info: https://ç node/585-runtime-class ↗

Property	Type	Description
`schedulerName`	`string`	If specified, the pod will be dispatched by s pod will be dispatched by default schedule
`schedulingGates`	`array`	SchedulingGates is an opaque list of value the pod. If schedulingGates is not empty, tl state and the scheduler will not attempt to SchedulingGates can only be set at pod cr afterwards.
`securityContext`	`object`	SecurityContext holds pod-level security at settings. Optional: Defaults to empty. See t each field.
`serviceAccount`	`string`	DeprecatedServiceAccount is a deprecate Deprecated: Use serviceAccountName ins
`serviceAccountName`	`string`	ServiceAccountName is the name of the S More info: https://kubernetes.io/docs/tasks service-account/ ↗

Property	Type	Description
`setHostnameAsFQDN`	`boolean`	If true the pod's hostname will be configure leaf name (the default). In Linux containers hostname field of the kernel (the nodenam containers, this means setting the registry HKEY_LOCAL_MACHINE\SYSTEM\Curre to FQDN. If a pod does not have FQDN, th
`shareProcessNamespace`	`boolean`	Share a single process namespace betwee this is set containers will be able to view ar containers in the same pod, and the first pr assigned PID 1. HostPID and ShareProces Optional: Default to false.
`subdomain`	`string`	If specified, the fully qualified Pod hostnam pod will not have a domainname at all.
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need decreased in delete request. Value must b indicates stop immediately via the kill signa value is nil, the default grace period will be duration in seconds after the processes ru signal and the time when the processes ar this value longer than the expected cleanu seconds.
`tolerations`	`array`	If specified, the pod's tolerations.

Property	Type	Description
`topologySpreadConstraints`	`array`	TopologySpreadConstraints describes how across topology domains. Scheduler will sc the constraints. All topologySpreadConstra
`volumes`	`array`	List of volumes that can be mounted by co info: https://kubernetes.io/docs/concepts/st

.spec.workloads[].template.spec.affinity

Description

If specified, the pod's scheduling constraints

Type

`object`

Property	Type	Description
`nodeAffinity`	`object`	Describes node affinity scheduling rules for the pod.
`podAffinity`	`object`	Describes pod affinity scheduling rules (e.g. co-locate this pod in the same node, zone, etc. as some other pod(s)).
`podAntiAffinity`	`object`	Describes pod anti-affinity scheduling rules (e.g. avoid putting this pod in the same node, zone, etc. as some other pod(s)).

.spec.workloads[].template.spec.affinity.nodeAffinity

Description

Describes node affinity scheduling rules for the pod.

Type

`object`

Property	Type	Description
`preferredDuringSchedulingIgnoredDuringExecution`	`array`	The scheduler will pr to schedule pods to nodes that satisfy the affinity expressions specified by this field, it may choose a node violates one or more the expressions. The node that is most preferred is the one w the greatest sum of weights, i.e. for each node that meets all o scheduling requireme (resource request, requiredDuringSched affinity expressions, e compute a sum by iterating through the elements of this field adding "weight" to the sum if the node matc the corresponding matchExpressions; th node(s) with the high

Property	Type	Description
		sum are the most preferred.
`requiredDuringSchedulingIgnoredDuringExecution`	`object`	If the affinity requirem specified by this field not met at scheduling time, the pod will not scheduled onto the n If the affinity requirem specified by this field cease to be met at sc point during pod execution (e.g. due tc update), the system r or may not try to eventually evict the p from its node.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node matches the corresponding matchExpressions; the node(s) with the highest sum are the most preferred.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

An empty preferred scheduling term matches all objects with implicit weight 0 (i.e. it's a no-op). A null preferred scheduling term matches no objects (i.e. is also a no-op).

Type

`object`

Required

`preference` `weight`

Property	Type	Description
`preference`	`object`	A node selector term, associated with the corresponding weight.
`weight`	`integer`	Weight associated with matching the corresponding nodeSelectorTerm, in the range 1-100.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference

Description

A node selector term, associated with the corresponding weight.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	A list of node selector requirements by node's labels.
`matchFields`	`array`	A list of node selector requirements by node's fields.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions

Description

A list of node selector requirements by node's labels.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preferenc

e.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields

Description

A list of node selector requirements by node's fields.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.

Property	Type	Description
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to an update), the system may or may not try to eventually evict the pod from its node.

Type

`object`

Required

`nodeSelectorTerms`

Property	Type	Description
`nodeSelectorTerms`	`array`	Required. A list of node selector terms. The terms are ORed.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms

Description

Required. A list of node selector terms. The terms are ORed.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelect

orTerms[]

Description

A null or empty node selector term matches no objects. The requirements of them are ANDed. The TopologySelectorTerm type implements a subset of the NodeSelectorTerm.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	A list of node selector requirements by node's labels.
`matchFields`	`array`	A list of node selector requirements by node's fields.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions

Description

A list of node selector requirements by node's labels.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields

Description

A list of node selector requirements by node's fields.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelect

orTerms[].matchFields[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity

Description

Describes pod affinity scheduling rules (e.g. co-locate this pod in the same node, zone, etc. as some other pod(s)).

Type

`object`

Property	Type	Description
`preferredDuringSchedulingIgnoredDuringExecution`	`array`	The scheduler will pr to schedule pods to nodes that satisfy the affinity expressions specified by this field, it may choose a node violates one or more the expressions. The node that is most preferred is the one v the greatest sum of weights, i.e. for each node that meets all o scheduling requireme (resource request, requiredDuringSched affinity expressions, e compute a sum by iterating through the elements of this field

Property	Type	Description
		adding "weight" to the sum if the node has p which matches the corresponding podAffinityTerm; the node(s) with the high sum are the most preferred.
`requiredDuringSchedulingIgnoredDuringExecution`	`array`	If the affinity requirem specified by this field not met at scheduling time, the pod will not scheduled onto the n If the affinity requirem specified by this field cease to be met at so point during pod execution (e.g. due to pod label update), the system may or may n try to eventually evict pod from its node. Wh there are multiple elements, the lists of nodes corresponding each podAffinityTerm intersected, i.e. all ter must be satisfied.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node has pods which matches the corresponding podAffinityTerm; the node(s) with the highest sum are the most preferred.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

The weights of all of the matched WeightedPodAffinityTerm fields are added per-node to find the most preferred node(s)

Type

`object`

Required

`podAffinityTerm` `weight`

Property	Type	Description
`podAffinityTerm`	`object`	Required. A pod affinity term, associated with the corresponding weight.

Property	Type	Description
`weight`	`integer`	weight associated with matching the corresponding podAffinityTerm, in the range 1-100.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm

Description

Required. A pod affinity term, associated with the corresponding weight.

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod

Property	Type	Description
		labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Property	Type	Description
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinit

yTerm.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinit

yTerm.namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to a pod label update), the system may or may not try to eventually evict the pod from its node. When there are multiple elements, the lists of nodes corresponding to each podAffinityTerm are intersected, i.e. all terms must be satisfied.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[]

Description

Defines a set of pods (namely those matching the labelSelector relative to the given namespace(s)) that this pod should be co-located (affinity) or not co-located (anti-affinity) with, where co-located is defined as running on a node whose value of the label with key <topologyKey> matches that of any node on which a pod of the set of pods is running

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Property	Type	Description
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Property	Type	Description
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.

Property	Type	Description
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchL

abelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespac

eSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity

Description

Describes pod anti-affinity scheduling rules (e.g. avoid putting this pod in the same node, zone, etc. as some other pod(s)).

Type

`object`

Property	Type	Description
`preferredDuringSchedulingIgnoredDuringExecution`	`array`	The scheduler will pr to schedule pods to nodes that satisfy the anti-affinity expressio specified by this field, it may choose a node violates one or more the expressions. The node that is most preferred is the one w the greatest sum of weights, i.e. for each node that meets all o scheduling requireme (resource request, requiredDuringSched anti-affinity expressio etc.), compute a sum iterating through the elements of this field adding "weight" to the sum if the node has p

Property	Type	Description
		which matches the corresponding podAffinityTerm; the node(s) with the high sum are the most preferred.
`requiredDuringSchedulingIgnoredDuringExecution`	`array`	If the anti-affinity requirements specifie this field are not met scheduling time, the p will not be scheduled the node. If the anti-affinity requirements specified by this field cease to be met at sc point during pod execution (e.g. due to pod label update), the system may or may n try to eventually evict pod from its node. Wh there are multiple elements, the lists of nodes corresponding each podAffinityTerm intersected, i.e. all ter must be satisfied.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the anti-affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling anti-affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node has pods which matches the corresponding podAffinityTerm; the node(s) with the highest sum are the most preferred.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

The weights of all of the matched WeightedPodAffinityTerm fields are added per-node to find the most preferred node(s)

Type

`object`

Required

`podAffinityTerm` `weight`

Property	Type	Description
`podAffinityTerm`	`object`	Required. A pod affinity term, associated with the corresponding weight.
`weight`	`integer`	weight associated with matching the corresponding podAffinityTerm, in the range 1-100.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm

Description

Required. A pod affinity term, associated with the corresponding weight.

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Property	Type	Description
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Property	Type	Description
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAf

finityTerm.namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAf

finityTerm.namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the anti-affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the anti-affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to a pod label update), the system may or may not try to eventually evict the pod from its node. When there are multiple elements, the lists of nodes corresponding to each podAffinityTerm are intersected, i.e. all terms must be satisfied.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[]

Description

Defines a set of pods (namely those matching the labelSelector relative to the given namespace(s)) that this pod should be co-located (affinity) or not co-located (anti-affinity) with, where co-located is defined as running on a node whose value of the label with key <topologyKey> matches that of any node on which a pod of the set of pods is running

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Property	Type	Description
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Property	Type	Description
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.

Property	Type	Description
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismat

chLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].names

paceSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces[]

Type

`string`

.spec.workloads[].template.spec.containers

Description

List of containers belonging to the pod. Containers cannot currently be added or removed. There must be at least one container in a Pod. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[]

Description

A single application container that you want to run within a pod.

Type

`object`

Required

`name`

Property	Type	Description
`args`	`array`	Arguments to the entrypoint. The container imag if this is not provided. Variable references $(VAR expanded using the container's environment. If a be resolved, the reference in the input string will Double $$ are reduced to a single $, which allow the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" string literal "$(VAR_NAME)". Escaped reference expanded, regardless of whether the variable ex Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`command`	`array`	Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provi references $(VAR_NAME) are expanded using tl environment. If a variable cannot be resolved, th the input string will be unchanged. Double $$ are single $, which allows for escaping the $(VAR_N i.e. "$$(VAR_NAME)" will produce the string liter "$(VAR_NAME)". Escaped references will never regardless of whether the variable exists or not. updated. More info: https://kubernetes.io/docs/ta application/define-command-argument-container command-in-a-shell ↗
`env`	`array`	List of environment variables to set in the contair updated.
`envFrom`	`array`	List of sources to populate environment variables container. The keys defined within a source mus

Property	Type	Description
		C_IDENTIFIER. All invalid keys will be reported a when the container is starting. When a key exists sources, the value associated with the last sourc precedence. Values defined by an Env with a du take precedence. Cannot be updated.
`image`	`string`	Container image name. More info: https://kubernetes.io/docs/concepts/containers/ir field is optional to allow higher level config mana default or override container images in workload Deployments and StatefulSets.
`imagePullPolicy`	`string`	Image pull policy. One of Always, Never, IfNotPre to Always if :latest tag is specified, or IfNotPrese Cannot be updated. More info: https://kubernetes.io/docs/concepts/containers/ir images ↗
`lifecycle`	`object`	Actions that the management system should tak container lifecycle events. Cannot be updated.
`livenessProbe`	`object`	Periodic probe of container liveness. Container w the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`name`	`string`	Name of the container specified as a DNS_LABE container in a pod must have a unique name (DN

Property	Type	Description
		Cannot be updated.
`ports`	`array`	List of ports to expose from the container. Not sp here DOES NOT prevent that port from being ex which is listening on the default "0.0.0.0" address container will be accessible from the network. Mo array with strategic merge patch may corrupt the information See https://github.com/kubernetes/kubernetes/issues Cannot be updated.
`readinessProbe`	`object`	Periodic probe of container service readiness. Co removed from service endpoints if the probe fails updated. More info: https://kubernetes.io/docs/concepts/workloads/po lifecycle#container-probes ↗
`resizePolicy`	`array`	Resources resize policy for the container.
`resources`	`object`	Compute Resources required by this container. C updated. More info: https://kubernetes.io/docs/concepts/configuration resources-containers/ ↗
`restartPolicy`	`string`	RestartPolicy defines the restart behavior of indiv in a pod. This field may only be set for init contai only allowed value is "Always". For non-init conta this field is not specified, the restart behavior is d

Property	Type	Description
		Pod's restart policy and the container type. Settir RestartPolicy as "Always" for the init container w following effect: this init container will be continua exit until all regular containers have terminated. (containers have completed, all init containers wit "Always" will be shut down. This lifecycle differs f containers and is often referred to as a "sidecar" Although this init container still starts in the init cc sequence, it does not wait for the container to co proceeding to the next init container. Instead, the container starts immediately after this init contair after any startupProbe has successfully complete
`securityContext`	`object`	SecurityContext defines the security options the be run with. If set, the fields of SecurityContext o equivalent fields of PodSecurityContext. More inf https://kubernetes.io/docs/tasks/configure-pod-container/security-context/ ↗
`startupProbe`	`object`	StartupProbe indicates that the Pod has success If specified, no other probes are executed until th successfully. If this probe fails, the Pod will be re the livenessProbe failed. This can be used to prc probe parameters at the beginning of a Pod's life might take a long time to load data or warm a ca steady-state operation. This cannot be updated. https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`stdin`	`boolean`	Whether this container should allocate a buffer fc container runtime. If this is not set, reads from st

Property	Type	Description
		container will always result in EOF. Default is fals
`stdinOnce`	`boolean`	Whether the container runtime should close the s after it has been opened by a single attach. Whe the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is oper start, is empty until the first client attaches to stdi remains open and accepts data until the client di which time stdin is closed and remains closed ur is restarted. If this flag is false, a container proce from stdin will never receive an EOF. Default is fa
`terminationMessagePath`	`string`	Optional: Path at which the file to which the conta termination message will be written is mounted i container's filesystem. Message written is intend final status, such as an assertion failure messag truncated by the node if greater than 4096 bytes. message length across all containers will be limit Defaults to /dev/termination-log. Cannot be upda
`terminationMessagePolicy`	`string`	Indicate how the termination message should be will use the contents of terminationMessagePath container status message on both success and f FallbackToLogsOnError will use the last chunk o output if the termination message file is empty ar exited with an error. The log output is limited to 2 lines, whichever is smaller. Defaults to File. Cann

Property	Type	Description
`tty`	`boolean`	Whether this container should allocate a TTY for requires 'stdin' to be true. Default is false.
`volumeDevices`	`array`	volumeDevices is the list of block devices to be u container.
`volumeMounts`	`array`	Pod volumes to mount into the container's filesys updated.
`workingDir`	`string`	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

.spec.workloads[].template.spec.containers[].args

Description

Arguments to the entrypoint. The container image's CMD is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.containers[].args[]

Type

`string`

.spec.workloads[].template.spec.containers[].command

Description

Entrypoint array. Not executed within a shell. The container image's ENTRYPOINT is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.containers[].command[]

Type

`string`

.spec.workloads[].template.spec.containers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the environment variable. Must be a C_IDENTIFIER.
`value`	`string`	Variable references $(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
`valueFrom`	`object`	Source for the environment variable's value. Cannot be used if value is not empty.

.spec.workloads[].template.spec.containers[].env[].valueFrom

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
`configMapKeyRef`	`object`	Selects a key of a ConfigMap.
`fieldRef`	`object`	Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
`secretKeyRef`	`object`	Selects a key of a secret in the pod's namespace

.spec.workloads[].template.spec.containers[].env[].valueFrom.configMapKeyRef

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key to select.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap or its key must be defined

.spec.workloads[].template.spec.containers[].env[].valueFrom.fieldRef

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.containers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"

Property	Type	Description
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.containers[].env[].valueFrom.secretKeyRef

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key of the secret to select from. Must be a valid secret key.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.containers[].envFrom

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].envFrom[]

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
`configMapRef`	`object`	The ConfigMap to select from
`prefix`	`string`	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
`secretRef`	`object`	The Secret to select from

.spec.workloads[].template.spec.containers[].envFrom[].configMapRef

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap must be defined

.spec.workloads[].template.spec.containers[].envFrom[].secretRef

Description

The Secret to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret must be defined

.spec.workloads[].template.spec.containers[].lifecycle

Description

Actions that the management system should take in response to container lifecycle events. Cannot be updated.

Type

`object`

Property	Type	Description
`postStart`	`object`	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
`preStop`	`object`	PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the

Property	Type	Description
		container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

.spec.workloads[].template.spec.containers[].lifecycle.postStart

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.

Property	Type	Description
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.postStart.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.

Property	Type	Description
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].lifecycle.postStart.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].lifecycle.preStop

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to

Property	Type	Description
		explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.preStop.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.preStop.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].livenessProbe

Description

Periodic probe of container liveness. Container will be restarted if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I

Property	Type	Description
		Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.containers[].livenessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].livenessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.containers[].livenessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].livenessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].livenessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].ports

Description

List of ports to expose from the container. Not specifying a port here DOES NOT prevent that port from being exposed. Any port which is listening on the default "0.0.0.0" address inside a container will be accessible from the network. Modifying this array with strategic merge patch may corrupt the data. For more information See https://github.com/kubernetes/kubernetes/issues/108255. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].ports[]

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
`containerPort`	`integer`	Number of port to expose on the pod's IP address. This must be a valid port number, 0 < x < 65536.
`hostIP`	`string`	What host IP to bind the external port to.
`hostPort`	`integer`	Number of port to expose on the host. If specified, this must be a valid port number, 0 < x < 65536. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
`name`	`string`	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
`protocol`	`string`	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

.spec.workloads[].template.spec.containers[].readinessProbe

Description

Periodic probe of container service readiness. Container will be removed from service endpoints if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu

Property	Type	Description
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the ti processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.containers[].readinessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].readinessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].readinessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].readinessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.containers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].readinessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].readinessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].readinessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].resizePolicy

Description

Resources resize policy for the container.

Type

`array`

.spec.workloads[].template.spec.containers[].resizePolicy[]

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName` `restartPolicy`

Property	Type	Description
`resourceName`	`string`	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.
`restartPolicy`	`string`	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

.spec.workloads[].template.spec.containers[].resources

Description

Compute Resources required by this container. Cannot be updated. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

Property	Type	Description
`claims`	`array`	Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.containers[].resources.claims

Description

Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.

Type

`array`

.spec.workloads[].template.spec.containers[].resources.claims[]

Description

ResourceClaim references one entry in PodSpec.ResourceClaims.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.
`request`	`string`	Request is the name chosen for a request in the referenced claim. If empty, everything from the claim is made available, otherwise only the result of this request.

.spec.workloads[].template.spec.containers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.containers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.containers[].securityContext

Description

SecurityContext defines the security options the container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext. More info: https://kubernetes.io/docs/tasks/configure-pod-container/security-context/

Type

`object`

Property	Type	Description
`allowPrivilegeEscalation`	`boolean`	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no_new_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1. run as Privileged 2. has CAP_SYS_ADMIN Note that this field cannot be set when spec.os.name is windows.
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.
`capabilities`	`object`	The capabilities to add/drop when running containers. Defaults to the default set of

Property	Type	Description
		capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.
`privileged`	`boolean`	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when spec.os.name is windows.
`procMount`	`string`	procMount denotes the type of proc mount to use for the containers. The default value is Default which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows.
`readOnlyRootFilesystem`	`boolean`	Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.containers[].securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.containers[].securityContext.capabilities

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`add`	`array`	Added capabilities

Property	Type	Description
`drop`	`array`	Removed capabilities

.spec.workloads[].template.spec.containers[].securityContext.capabilities.add

Description

Added capabilities

Type

`array`

.spec.workloads[].template.spec.containers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.containers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.workloads[].template.spec.containers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.containers[].securityContext.seLinuxOptions

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.

Property	Type	Description
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.containers[].securityContext.seccompProfile

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container

Property	Type	Description
		runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.containers[].securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa ↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same

Property	Type	Description
		effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.containers[].startupProbe

Description

StartupProbe indicates that the Pod has successfully initialized. If specified, no other probes are executed until this completes successfully. If this probe fails, the Pod will be restarted, just as if the livenessProbe failed. This can be used to provide different probe parameters at the beginning of a Pod's lifecycle, when it might take a long time to load data or warm a cache, than during steady-state operation. This cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.containers[].startupProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].startupProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].startupProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].startupProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.containers[].startupProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].startupProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].volumeDevices

Description

volumeDevices is the list of block devices to be used by the container.

Type

`array`

.spec.workloads[].template.spec.containers[].volumeDevices[]

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath` `name`

Property	Type	Description
`devicePath`	`string`	devicePath is the path inside of the container that the device will be mapped to.

Property	Type	Description
`name`	`string`	name must match the name of a persistentVolumeClaim in the pod

.spec.workloads[].template.spec.containers[].volumeMounts

Description

Pod volumes to mount into the container's filesystem. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].volumeMounts[]

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath` `name`

Property	Type	Description
`mountPath`	`string`	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
`mountPropagation`	`string`	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. When RecursiveReadOnly is set to IfPossible or to Enabled, MountPropagation must be None or unspecified (which defaults to None).
`name`	`string`	This must match the Name of a Volume.
`readOnly`	`boolean`	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
`recursiveReadOnly`	`string`	RecursiveReadOnly specifies whether read-only mounts should be handled recursively. If ReadOnly is false, this field has no meaning and must be unspecified. If ReadOnly is true, and this field is set to Disabled, the mount is not made recursively read-only. If this field is set to IfPossible, the mount is made recursively read-only, if it is supported by the container runtime. If this field is set to Enabled, the mount is made recursively read-only if it is supported by the container runtime, otherwise the pod will not be started and an error will be generated to indicate the reason. If this field is set to IfPossible or Enabled, MountPropagation must be set to None (or be

Property	Type	Description
		unspecified, which defaults to None). If this field is not specified, it is treated as an equivalent of Disabled.
`subPath`	`string`	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
`subPathExpr`	`string`	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references $(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

.spec.workloads[].template.spec.dnsConfig

Description

Specifies the DNS parameters of a pod. Parameters specified here will be merged to the generated DNS configuration based on DNSPolicy.

Type

`object`

Property	Type	Description
`nameservers`	`array`	A list of DNS name server IP addresses. This will be appended to the base nameservers generated from DNSPolicy. Duplicated nameservers will be removed.
`options`	`array`	A list of DNS resolver options. This will be merged with the base options generated from DNSPolicy. Duplicated entries will be removed. Resolution options given in Options will override those that appear in the base DNSPolicy.
`searches`	`array`	A list of DNS search domains for host-name lookup. This will be appended to the base search paths generated from DNSPolicy. Duplicated search paths will be removed.

.spec.workloads[].template.spec.dnsConfig.nameservers

Description

A list of DNS name server IP addresses. This will be appended to the base nameservers generated from DNSPolicy. Duplicated nameservers will be removed.

Type

`array`

.spec.workloads[].template.spec.dnsConfig.nameservers[]

Type

`string`

.spec.workloads[].template.spec.dnsConfig.options

Description

A list of DNS resolver options. This will be merged with the base options generated from DNSPolicy. Duplicated entries will be removed. Resolution options given in Options will override those that appear in the base DNSPolicy.

Type

`array`

.spec.workloads[].template.spec.dnsConfig.options[]

Description

PodDNSConfigOption defines DNS resolver options of a pod.

Type

`object`

Property	Type	Description
`name`	`string`	Required.
`value`	`string`	

.spec.workloads[].template.spec.dnsConfig.searches

Description

A list of DNS search domains for host-name lookup. This will be appended to the base search paths generated from DNSPolicy. Duplicated search paths will be removed.

Type

`array`

.spec.workloads[].template.spec.dnsConfig.searches[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers

Description

List of ephemeral containers run in this pod. Ephemeral containers may be run in an existing pod to perform user-initiated actions such as debugging. This list cannot be specified when creating a pod, and it cannot be modified by updating the pod spec. In order to add an ephemeral container to an existing pod, use the pod's ephemeralcontainers subresource.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[]

Description

An EphemeralContainer is a temporary container that you may add to an existing Pod for user-initiated activities such as debugging. Ephemeral containers have no resource or scheduling guarantees, and they will not be restarted when they exit or when a Pod is removed or restarted. The kubelet may evict a Pod if an ephemeral container causes the Pod to exceed its resource allocation. To add an ephemeral container, use the ephemeralcontainers subresource of an existing Pod. Ephemeral containers may not be removed or restarted.

Type

`object`

Required

`name`

Property	Type	Description
`args`	`array`	Arguments to the entrypoint. The image's CMD is not provided. Variable references $(VAR_NAME) using the container's environment. If a variable c

Property	Type	Description
		resolved, the reference in the input string will be Double $$ are reduced to a single $, which allow the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" string literal "$(VAR_NAME)". Escaped reference expanded, regardless of whether the variable ex Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`command`	`array`	Entrypoint array. Not executed within a shell. The ENTRYPOINT is used if this is not provided. Vari $(VAR_NAME) are expanded using the containe If a variable cannot be resolved, the reference in will be unchanged. Double $$ are reduced to a s allows for escaping the $(VAR_NAME) syntax: i. "$$(VAR_NAME)" will produce the string literal "$ Escaped references will never be expanded, reg whether the variable exists or not. Cannot be upd https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`env`	`array`	List of environment variables to set in the contair updated.

Property	Type	Description
`envFrom`	`array`	List of sources to populate environment variables container. The keys defined within a source must C_IDENTIFIER. All invalid keys will be reported a when the container is starting. When a key exists sources, the value associated with the last sourc precedence. Values defined by an Env with a du take precedence. Cannot be updated.
`image`	`string`	Container image name. More info: https://kubernetes.io/docs/concepts/containers/ir
`imagePullPolicy`	`string`	Image pull policy. One of Always, Never, IfNotPre to Always if :latest tag is specified, or IfNotPrese Cannot be updated. More info: https://kubernetes.io/docs/concepts/containers/ir images ↗
`lifecycle`	`object`	Lifecycle is not allowed for ephemeral containers
`livenessProbe`	`object`	Probes are not allowed for ephemeral containers
`name`	`string`	Name of the ephemeral container specified as a This name must be unique among all containers, and ephemeral containers.

Property	Type	Description
`ports`	`array`	Ports are not allowed for ephemeral containers.
`readinessProbe`	`object`	Probes are not allowed for ephemeral containers
`resizePolicy`	`array`	Resources resize policy for the container.
`resources`	`object`	Resources are not allowed for ephemeral contai containers use spare resources already allocate
`restartPolicy`	`string`	Restart policy for the container to manage the re each container within a pod. This may only be se containers. You cannot set this field on ephemer
`securityContext`	`object`	Optional: SecurityContext defines the security op ephemeral container should be run with. If set, th SecurityContext override the equivalent fields of PodSecurityContext.
`startupProbe`	`object`	Probes are not allowed for ephemeral containers
`stdin`	`boolean`	Whether this container should allocate a buffer fo container runtime. If this is not set, reads from st container will always result in EOF. Default is fals

Property	Type	Description
`stdinOnce`	`boolean`	Whether the container runtime should close the s after it has been opened by a single attach. Whe the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is oper start, is empty until the first client attaches to stdi remains open and accepts data until the client di which time stdin is closed and remains closed ur is restarted. If this flag is false, a container proce from stdin will never receive an EOF. Default is fa
`targetContainerName`	`string`	If set, the name of the container from PodSpec th ephemeral container targets. The ephemeral cor run in the namespaces (IPC, PID, etc) of this cor then the ephemeral container uses the namespa in the Pod spec. The container runtime must implement support fo the runtime does not support namespace targeti result of setting this field is undefined.
`terminationMessagePath`	`string`	Optional: Path at which the file to which the conta termination message will be written is mounted in container's filesystem. Message written is intend final status, such as an assertion failure messag truncated by the node if greater than 4096 bytes. message length across all containers will be limit Defaults to /dev/termination-log. Cannot be upda
`terminationMessagePolicy`	`string`	Indicate how the termination message should be will use the contents of terminationMessagePath

Property	Type	Description
		container status message on both success and f FallbackToLogsOnError will use the last chunk o output if the termination message file is empty ar exited with an error. The log output is limited to 2 lines, whichever is smaller. Defaults to File. Canr
`tty`	`boolean`	Whether this container should allocate a TTY for requires 'stdin' to be true. Default is false.
`volumeDevices`	`array`	volumeDevices is the list of block devices to be u container.
`volumeMounts`	`array`	Pod volumes to mount into the container's filesys mounts are not allowed for ephemeral containers updated.
`workingDir`	`string`	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

.spec.workloads[].template.spec.ephemeralContainers[].args

Description

Arguments to the entrypoint. The image's CMD is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e.

"$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].args[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].command

Description

Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the environment variable. Must be a C_IDENTIFIER.
`value`	`string`	Variable references $(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME)

Property	Type	Description
		syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
`valueFrom`	`object`	Source for the environment variable's value. Cannot be used if value is not empty.

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
`configMapKeyRef`	`object`	Selects a key of a ConfigMap.
`fieldRef`	`object`	Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Property	Type	Description
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
`secretKeyRef`	`object`	Selects a key of a secret in the pod's namespace

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.configMapKeyRef

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key to select.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap or its key must be defined

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.fieldRef

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.secretKeyRef

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key of the secret to select from. Must be a valid secret key.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.ephemeralContainers[].envFrom

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].envFrom[]

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
`configMapRef`	`object`	The ConfigMap to select from
`prefix`	`string`	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
`secretRef`	`object`	The Secret to select from

.spec.workloads[].template.spec.ephemeralContainers[].envFrom[].configMapRef

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap must be defined

.spec.workloads[].template.spec.ephemeralContainers[].envFrom[].secretRef

Description

The Secret to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret must be defined

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle

Description

Lifecycle is not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`postStart`	`object`	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
`preStop`	`object`	PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be

Property	Type	Description
		an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility.

Property	Type	Description
		There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.

Property	Type	Description
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when

tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.

Property	Type	Description
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru

Property	Type	Description
		pod are sent a termination signal and the ti processes are forcibly halted with a kill sigı value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceF gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root

Property	Type	Description
		('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].ports

Description

Ports are not allowed for ephemeral containers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].ports[]

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
`containerPort`	`integer`	Number of port to expose on the pod's IP address. This must be a valid port number, 0 < x < 65536.

Property	Type	Description
`hostIP`	`string`	What host IP to bind the external port to.
`hostPort`	`integer`	Number of port to expose on the host. If specified, this must be a valid port number, 0 < x < 65536. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
`name`	`string`	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
`protocol`	`string`	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].resizePolicy

Description

Resources resize policy for the container.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].resizePolicy[]

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName` `restartPolicy`

Property	Type	Description
`resourceName`	`string`	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.

Property	Type	Description
`restartPolicy`	`string`	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

.spec.workloads[].template.spec.ephemeralContainers[].resources

Description

Resources are not allowed for ephemeral containers. Ephemeral containers use spare resources already allocated to the pod.

Type

`object`

Property	Type	Description
`claims`	`array`	Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.ephemeralContainers[].resources.claims

Description

Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].resources.claims[]

Description

ResourceClaim references one entry in PodSpec.ResourceClaims.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.
`request`	`string`	Request is the name chosen for a request in the referenced claim. If empty, everything from the claim is made available, otherwise only the result of this request.

.spec.workloads[].template.spec.ephemeralContainers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.ephemeralContainers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext

Description

Optional: SecurityContext defines the security options the ephemeral container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext.

Type

`object`

Property	Type	Description
`allowPrivilegeEscalation`	`boolean`	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no_new_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1. run as Privileged 2. has CAP_SYS_ADMIN Note that this field cannot be set when spec.os.name is windows.
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.
`capabilities`	`object`	The capabilities to add/drop when running containers. Defaults to the default set of

Property	Type	Description
		capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.
`privileged`	`boolean`	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when spec.os.name is windows.
`procMount`	`string`	procMount denotes the type of proc mount to use for the containers. The default value is Default which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows.
`readOnlyRootFilesystem`	`boolean`	Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`add`	`array`	Added capabilities

Property	Type	Description
`drop`	`array`	Removed capabilities

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.add

Description

Added capabilities

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.seLinuxOptions

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.

Property	Type	Description
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.seccompProfile

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container

Property	Type	Description
		runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa ↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same

Property	Type	Description
		effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded.

Property	Type	Description
		Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the ti processes are forcibly halted with a kill sig value longer than the expected cleanup tim

Property	Type	Description
		process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceF gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to

Property	Type	Description
		explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.

Property	Type	Description
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].volumeDevices

Description

volumeDevices is the list of block devices to be used by the container.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].volumeDevices[]

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath` `name`

Property	Type	Description
`devicePath`	`string`	devicePath is the path inside of the container that the device will be mapped to.

Property	Type	Description
`name`	`string`	name must match the name of a persistentVolumeClaim in the pod

.spec.workloads[].template.spec.ephemeralContainers[].volumeMounts

Description

Pod volumes to mount into the container's filesystem. Subpath mounts are not allowed for ephemeral containers. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].volumeMounts[]

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath` `name`

Property	Type	Description
`mountPath`	`string`	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
`mountPropagation`	`string`	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. When RecursiveReadOnly is set to IfPossible or to Enabled, MountPropagation must be None or unspecified (which defaults to None).
`name`	`string`	This must match the Name of a Volume.
`readOnly`	`boolean`	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
`recursiveReadOnly`	`string`	RecursiveReadOnly specifies whether read-only mounts should be handled recursively. If ReadOnly is false, this field has no meaning and must be unspecified. If ReadOnly is true, and this field is set to Disabled, the mount is not made recursively read-only. If this field is set to IfPossible, the mount is made recursively read-only, if it is supported by the container runtime. If this field is set to Enabled, the mount is made recursively read-only if it is supported by the container runtime, otherwise the pod will not be started and an error will be generated to indicate the reason. If this field is set to IfPossible or Enabled, MountPropagation must be set to None (or be

Property	Type	Description
		unspecified, which defaults to None). If this field is not specified, it is treated as an equivalent of Disabled.
`subPath`	`string`	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
`subPathExpr`	`string`	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references $(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

.spec.workloads[].template.spec.hostAliases

Description

HostAliases is an optional list of hosts and IPs that will be injected into the pod's hosts file if specified.

Type

`array`

.spec.workloads[].template.spec.hostAliases[]

Description

HostAlias holds the mapping between IP and hostnames that will be injected as an entry in the pod's hosts file.

Type

`object`

Required

`ip`

Property	Type	Description
`hostnames`	`array`	Hostnames for the above IP address.
`ip`	`string`	IP address of the host file entry.

.spec.workloads[].template.spec.hostAliases[].hostnames

Description

Hostnames for the above IP address.

Type

`array`

.spec.workloads[].template.spec.hostAliases[].hostnames[]

Type

`string`

.spec.workloads[].template.spec.imagePullSecrets

Description

ImagePullSecrets is an optional list of references to secrets in the same namespace to use for pulling any of the images used by this PodSpec. If specified, these secrets will be passed to individual puller implementations for them to use. More info:

https://kubernetes.io/docs/concepts/containers/images#specifying-imagepullsecrets-on-a-pod

Type

`array`

.spec.workloads[].template.spec.imagePullSecrets[]

Description

LocalObjectReference contains enough information to let you locate the referenced object inside the same namespace.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.initContainers

Description

List of initialization containers belonging to the pod. Init containers are executed in order prior to containers being started. If any init container fails, the pod is considered to have failed and is handled according to its restartPolicy. The name for an init container or normal container must be unique among all containers. Init containers may not have Lifecycle actions, Readiness probes, Liveness probes, or Startup probes. The resourceRequirements of an init container are taken into account during scheduling by finding the highest request/limit for each resource type, and then using the max of of that value or the sum of the normal containers. Limits are applied to init containers in a similar fashion. Init

containers cannot currently be added or removed. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/init-containers/

Type

`array`

.spec.workloads[].template.spec.initContainers[]

Description

A single application container that you want to run within a pod.

Type

`object`

Required

`name`

Property	Type	Description
`args`	`array`	Arguments to the entrypoint. The container imag if this is not provided. Variable references $(VAR expanded using the container's environment. If a be resolved, the reference in the input string will Double $$ are reduced to a single $, which allow the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" string literal "$(VAR_NAME)". Escaped reference expanded, regardless of whether the variable ex Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`command`	`array`	Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provi references $(VAR_NAME) are expanded using tl environment. If a variable cannot be resolved, th

Property	Type	Description
		the input string will be unchanged. Double $$ are single $, which allows for escaping the $(VAR_N i.e. "$$(VAR_NAME)" will produce the string liter "$(VAR_NAME)". Escaped references will never regardless of whether the variable exists or not. updated. More info: https://kubernetes.io/docs/ta application/define-command-argument-container command-in-a-shell ↗
`env`	`array`	List of environment variables to set in the contair updated.
`envFrom`	`array`	List of sources to populate environment variables container. The keys defined within a source mus C_IDENTIFIER. All invalid keys will be reported a when the container is starting. When a key exists sources, the value associated with the last sourc precedence. Values defined by an Env with a du take precedence. Cannot be updated.
`image`	`string`	Container image name. More info: https://kubernetes.io/docs/concepts/containers/ir field is optional to allow higher level config mana default or override container images in workload Deployments and StatefulSets.
`imagePullPolicy`	`string`	Image pull policy. One of Always, Never, IfNotPre to Always if :latest tag is specified, or IfNotPrese Cannot be updated. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/containers/ir images ↗
`lifecycle`	`object`	Actions that the management system should tak container lifecycle events. Cannot be updated.
`livenessProbe`	`object`	Periodic probe of container liveness. Container w the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`name`	`string`	Name of the container specified as a DNS_LABE container in a pod must have a unique name (DN Cannot be updated.
`ports`	`array`	List of ports to expose from the container. Not sp here DOES NOT prevent that port from being ex which is listening on the default "0.0.0.0" address container will be accessible from the network. M array with strategic merge patch may corrupt the information See https://github.com/kubernetes/kubernetes/issues Cannot be updated.
`readinessProbe`	`object`	Periodic probe of container service readiness. C removed from service endpoints if the probe fails updated. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`resizePolicy`	`array`	Resources resize policy for the container.
`resources`	`object`	Compute Resources required by this container. C updated. More info: https://kubernetes.io/docs/concepts/configuratior resources-containers/ ↗
`restartPolicy`	`string`	RestartPolicy defines the restart behavior of indiv in a pod. This field may only be set for init contai only allowed value is "Always". For non-init conta this field is not specified, the restart behavior is d Pod's restart policy and the container type. Settir RestartPolicy as "Always" for the init container w following effect: this init container will be continua exit until all regular containers have terminated. C containers have completed, all init containers wit "Always" will be shut down. This lifecycle differs f containers and is often referred to as a "sidecar" Although this init container still starts in the init co sequence, it does not wait for the container to co proceeding to the next init container. Instead, the container starts immediately after this init contair after any startupProbe has successfully complete
`securityContext`	`object`	SecurityContext defines the security options the be run with. If set, the fields of SecurityContext o equivalent fields of PodSecurityContext. More inf

Property	Type	Description
		https://kubernetes.io/docs/tasks/configure-pod-container/security-context/ ↗
`startupProbe`	`object`	StartupProbe indicates that the Pod has success If specified, no other probes are executed until th successfully. If this probe fails, the Pod will be re the livenessProbe failed. This can be used to pro probe parameters at the beginning of a Pod's life might take a long time to load data or warm a ca steady-state operation. This cannot be updated. https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`stdin`	`boolean`	Whether this container should allocate a buffer fo container runtime. If this is not set, reads from st container will always result in EOF. Default is fals
`stdinOnce`	`boolean`	Whether the container runtime should close the s after it has been opened by a single attach. Whe the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is oper start, is empty until the first client attaches to stdi remains open and accepts data until the client di which time stdin is closed and remains closed ur is restarted. If this flag is false, a container proce from stdin will never receive an EOF. Default is fa
`terminationMessagePath`	`string`	Optional: Path at which the file to which the conta termination message will be written is mounted i container's filesystem. Message written is intend

Property	Type	Description
		final status, such as an assertion failure messag truncated by the node if greater than 4096 bytes. message length across all containers will be limit Defaults to /dev/termination-log. Cannot be upda
`terminationMessagePolicy`	`string`	Indicate how the termination message should be will use the contents of terminationMessagePath container status message on both success and f FallbackToLogsOnError will use the last chunk o output if the termination message file is empty ar exited with an error. The log output is limited to 2 lines, whichever is smaller. Defaults to File. Cann
`tty`	`boolean`	Whether this container should allocate a TTY for requires 'stdin' to be true. Default is false.
`volumeDevices`	`array`	volumeDevices is the list of block devices to be u container.
`volumeMounts`	`array`	Pod volumes to mount into the container's filesys updated.
`workingDir`	`string`	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

.spec.workloads[].template.spec.initContainers[].args

Description

Arguments to the entrypoint. The container image's CMD is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.initContainers[].args[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].command

Description

Entrypoint array. Not executed within a shell. The container image's ENTRYPOINT is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.initContainers[].command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the environment variable. Must be a C_IDENTIFIER.
`value`	`string`	Variable references $(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input

Property	Type	Description
		string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
`valueFrom`	`object`	Source for the environment variable's value. Cannot be used if value is not empty.

.spec.workloads[].template.spec.initContainers[].env[].valueFrom

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
`configMapKeyRef`	`object`	Selects a key of a ConfigMap.
`fieldRef`	`object`	Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Property	Type	Description
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
`secretKeyRef`	`object`	Selects a key of a secret in the pod's namespace

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.configMapKeyRef

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key to select.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap or its key must be defined

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.fieldRef

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.secretKeyRef

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key of the secret to select from. Must be a valid secret key.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.initContainers[].envFrom

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].envFrom[]

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
`configMapRef`	`object`	The ConfigMap to select from
`prefix`	`string`	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
`secretRef`	`object`	The Secret to select from

.spec.workloads[].template.spec.initContainers[].envFrom[].configMapRef

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

Property	Type	Description
`optional`	`boolean`	Specify whether the ConfigMap must be defined

.spec.workloads[].template.spec.initContainers[].envFrom[].secretRef

Description

The Secret to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret must be defined

.spec.workloads[].template.spec.initContainers[].lifecycle

Description

Actions that the management system should take in response to container lifecycle events. Cannot be updated.

Type

`object`

Property	Type	Description
`postStart`	`object`	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
`preStop`	`object`	PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the

container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.

Property	Type	Description
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when

tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].livenessProbe

Description

Periodic probe of container liveness. Container will be restarted if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.

Property	Type	Description
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru

Property	Type	Description
		pod are sent a termination signal and the ti processes are forcibly halted with a kill sigı value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceF gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.initContainers[].livenessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root

Property	Type	Description
		('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].livenessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.initContainers[].livenessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].livenessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].livenessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].ports

Description

List of ports to expose from the container. Not specifying a port here DOES NOT prevent that port from being exposed. Any port which is listening on the default "0.0.0.0" address inside a container will be accessible from the network. Modifying this array with strategic merge patch may corrupt the data. For more information See https://github.com/kubernetes/kubernetes/issues/108255. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].ports[]

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
`containerPort`	`integer`	Number of port to expose on the pod's IP address. This must be a valid port number, 0 < x < 65536.

Property	Type	Description
`hostIP`	`string`	What host IP to bind the external port to.
`hostPort`	`integer`	Number of port to expose on the host. If specified, this must be a valid port number, 0 < x < 65536. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
`name`	`string`	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
`protocol`	`string`	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

.spec.workloads[].template.spec.initContainers[].readinessProbe

Description

Periodic probe of container service readiness. Container will be removed from service endpoints if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.initContainers[].readinesProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].readinesProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].readinesProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].readinesProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.initContainers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].readinesProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].readinesProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].readinessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].resizePolicy

Description

Resources resize policy for the container.

Type

`array`

.spec.workloads[].template.spec.initContainers[].resizePolicy[]

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName` `restartPolicy`

Property	Type	Description
`resourceName`	`string`	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.

Property	Type	Description
`restartPolicy`	`string`	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

.spec.workloads[].template.spec.initContainers[].resources

Description

Compute Resources required by this container. Cannot be updated. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

Property	Type	Description
`claims`	`array`	Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.initContainers[].resources.claims

Description

Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].resources.claims[]

Description

ResourceClaim references one entry in PodSpec.ResourceClaims.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.
`request`	`string`	Request is the name chosen for a request in the referenced claim. If empty, everything from the claim is made available, otherwise only the result of this request.

.spec.workloads[].template.spec.initContainers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.initContainers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.initContainers[].securityContext

Description

SecurityContext defines the security options the container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext. More info: https://kubernetes.io/docs/tasks/configure-pod-container/security-context/

Type

`object`

Property	Type	Description
`allowPrivilegeEscalation`	`boolean`	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no_new_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1. run as Privileged 2. has CAP_SYS_ADMIN Note that this field cannot be set when spec.os.name is windows.
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.
`capabilities`	`object`	The capabilities to add/drop when running containers. Defaults to the default set of

Property	Type	Description
		capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.
`privileged`	`boolean`	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when spec.os.name is windows.
`procMount`	`string`	procMount denotes the type of proc mount to use for the containers. The default value is Default which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows.
`readOnlyRootFilesystem`	`boolean`	Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.initContainers[].securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`add`	`array`	Added capabilities

Property	Type	Description
`drop`	`array`	Removed capabilities

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.add

Description

Added capabilities

Type

`array`

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.initContainers[].securityContext.seLinuxOptions

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.

Property	Type	Description
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.initContainers[].securityContext.seccompProfile

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container

Property	Type	Description
		runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.initContainers[].securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same

Property	Type	Description
		effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.initContainers[].startupProbe

Description

StartupProbe indicates that the Pod has successfully initialized. If specified, no other probes are executed until this completes successfully. If this probe fails, the Pod will be restarted, just as if the livenessProbe failed. This can be used to provide different probe parameters at the beginning of a Pod's lifecycle, when it might take a long time to load data or warm a cache, than during steady-state operation. This cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.initContainers[].startupProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].startupProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].startupProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].startupProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.initContainers[].startupProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].startupProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].volumeDevices

Description

volumeDevices is the list of block devices to be used by the container.

Type

`array`

.spec.workloads[].template.spec.initContainers[].volumeDevices[]

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath` `name`

Property	Type	Description
`devicePath`	`string`	devicePath is the path inside of the container that the device will be mapped to.

Property	Type	Description
`name`	`string`	name must match the name of a persistentVolumeClaim in the pod

.spec.workloads[].template.spec.initContainers[].volumeMounts

Description

Pod volumes to mount into the container's filesystem. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].volumeMounts[]

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath` `name`

Property	Type	Description
`mountPath`	`string`	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
`mountPropagation`	`string`	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. When RecursiveReadOnly is set to IfPossible or to Enabled, MountPropagation must be None or unspecified (which defaults to None).
`name`	`string`	This must match the Name of a Volume.
`readOnly`	`boolean`	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
`recursiveReadOnly`	`string`	RecursiveReadOnly specifies whether read-only mounts should be handled recursively. If ReadOnly is false, this field has no meaning and must be unspecified. If ReadOnly is true, and this field is set to Disabled, the mount is not made recursively read-only. If this field is set to IfPossible, the mount is made recursively read-only, if it is supported by the container runtime. If this field is set to Enabled, the mount is made recursively read-only if it is supported by the container runtime, otherwise the pod will not be started and an error will be generated to indicate the reason. If this field is set to IfPossible or Enabled, MountPropagation must be set to None (or be

Property	Type	Description
		unspecified, which defaults to None). If this field is not specified, it is treated as an equivalent of Disabled.
`subPath`	`string`	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
`subPathExpr`	`string`	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references $(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

.spec.workloads[].template.spec.nodeSelector

Description

NodeSelector is a selector which must be true for the pod to fit on a node. Selector which must match a node's labels for the pod to be scheduled on that node. More info: https://kubernetes.io/docs/concepts/configuration/assign-pod-node/

Type

`object`

.spec.workloads[].template.spec.os

Description

Specifies the OS of the containers in the pod. Some pod and container fields are restricted if this is set. If the OS field is set to linux, the following fields must be unset: - securityContext.windowsOptions If the OS field is set to windows, following fields must be unset: - spec.hostPID - spec.hostIPC - spec.hostUsers - spec.securityContext.appArmorProfile - spec.securityContext.seLinuxOptions - spec.securityContext.seccompProfile - spec.securityContext.fsGroup - spec.securityContext.fsGroupChangePolicy - spec.securityContext.sysctls - spec.shareProcessNamespace - spec.securityContext.runAsUser - spec.securityContext.runAsGroup - spec.securityContext.supplementalGroups - spec.securityContext.supplementalGroupsPolicy - spec.containers[*].securityContext.appArmorProfile - spec.containers[*].securityContext.seLinuxOptions - spec.containers[*].securityContext.seccompProfile - spec.containers[*].securityContext.capabilities - spec.containers[*].securityContext.readOnlyRootFilesystem - spec.containers[*].securityContext.privileged - spec.containers[*].securityContext.allowPrivilegeEscalation - spec.containers[*].securityContext.procMount - spec.containers[*].securityContext.runAsUser - spec.containers[*].securityContext.runAsGroup

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name is the name of the operating system. The currently supported values are linux and windows. Additional value may be defined in future and can be one of: https://github.com/opencontainers/runtime-spec/blob/master/config.md#platform-specific-configuration ↗ Clients should expect to handle additional values and treat unrecognized values in this field as os: null

.spec.workloads[].template.spec.overhead

Description

Overhead represents the resource overhead associated with running a pod for a given RuntimeClass. This field will be autopopulated at admission time by the RuntimeClass admission controller. If the RuntimeClass admission controller is enabled, overhead must not be set in Pod create requests. The RuntimeClass admission controller will reject Pod create requests which have the overhead already set. If RuntimeClass is configured and selected in the PodSpec, Overhead will be set to the value defined in the corresponding RuntimeClass, otherwise it will remain unset and treated as zero. More info: https://git.k8s.io/enhancements/keps/sig-node/688-pod-overhead/README.md

Type

`object`

.spec.workloads[].template.spec.readinessGates

Description

If specified, all readiness gates will be evaluated for pod readiness. A pod is ready when all its containers are ready AND all conditions specified in the readiness gates have status equal to "True" More info: https://git.k8s.io/enhancements/keps/sig-network/580-pod-readiness-gates

Type

`array`

.spec.workloads[].template.spec.readinessGates[]

Description

PodReadinessGate contains the reference to a pod condition

Type

`object`

Required

`conditionType`

Property	Type	Description
`conditionType`	`string`	ConditionType refers to a condition in the pod's condition list with matching type.

.spec.workloads[].template.spec.resourceClaims

Description

ResourceClaims defines which ResourceClaims must be allocated and reserved before the Pod is allowed to start. The resources will be made available to those containers which consume them by name. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable.

Type

`array`

.spec.workloads[].template.spec.resourceClaims[]

Description

PodResourceClaim references exactly one ResourceClaim, either directly or by naming a ResourceClaimTemplate which is then turned into a ResourceClaim for the pod. It adds a name to it that uniquely identifies the ResourceClaim inside the Pod. Containers that need access to the ResourceClaim reference it with this name.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name uniquely identifies this resource claim inside the pod. This must be a

Property	Type	Description
		DNS_LABEL.
`resourceClaimName`	`string`	ResourceClaimName is the name of a ResourceClaim object in the same namespace as this pod. Exactly one of ResourceClaimName and ResourceClaimTemplateName must be set.
`resourceClaimTemplateName`	`string`	ResourceClaimTemplateName is the name of a ResourceClaimTemplate object in the same namespace as this pod. The template will be used to create a new ResourceClaim, which will be bound to this pod. When this pod is deleted, the ResourceClaim will also be deleted. The pod name and resource name, along with a generated component, will be used to form a unique name for the ResourceClaim, which will be recorded in pod.status.resourceClaimStatuses. This field is immutable and no changes will be made to the corresponding ResourceClaim by the control plane after creating the ResourceClaim. Exactly one of ResourceClaimName and ResourceClaimTemplateName must be set.

.spec.workloads[].template.spec.schedulingGates

Description

SchedulingGates is an opaque list of values that if specified will block scheduling the pod. If schedulingGates is not empty, the pod will stay in the SchedulingGated state and the scheduler will not attempt to schedule the pod. SchedulingGates can only be set at pod creation time, and be removed only afterwards.

Type

`array`

.spec.workloads[].template.spec.schedulingGates[]

Description

PodSchedulingGate is associated to a Pod to guard its scheduling.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the scheduling gate. Each scheduling gate must have a unique name field.

.spec.workloads[].template.spec.securityContext

Description

SecurityContext holds pod-level security attributes and common container settings. Optional: Defaults to empty. See type description for default values of each field.

Type

`object`

Property	Type	Description
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.
`fsGroup`	`integer`	A special supplemental group that applies to all containers in a pod. Some volume types allow the Kubelet to change the ownership of that volume to be owned by the pod: 1. The owning GID will be the FSGroup 2. The setgid bit is set (new files created in the volume will be owned by FSGroup) 3. The permission bits are OR'd with rw-rw---- If unset, the Kubelet will not modify the ownership and permissions of any volume. Note that this field cannot be set when spec.os.name is windows.
`fsGroupChangePolicy`	`string`	fsGroupChangePolicy defines behavior of changing ownership and permission of the volume before being exposed inside Pod. This field will only apply to volume types which support fsGroup based ownership(and permissions). It will have no effect on ephemeral volume types such as: secret, configmaps and emptydir. Valid values are "OnRootMismatch" and

Property	Type	Description
		"Always". If not specified, "Always" is used. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that

Property	Type	Description
		container. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to all containers. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.
`supplementalGroups`	`array`	A list of groups applied to the first process run in each container, in addition to the container's primary GID and fsGroup (if specified). If the SupplementalGroupsPolicy feature is enabled, the supplementalGroupsPolicy field determines whether these are in addition to or instead of any group memberships defined in the container image. If unspecified, no additional groups are added, though group memberships defined in the container image may still be used, depending on the

Property	Type	Description
		supplementalGroupsPolicy field. Note that this field cannot be set when spec.os.name is windows.
`supplementalGroupsPolicy`	`string`	Defines how supplemental groups of the first container processes are calculated. Valid values are "Merge" and "Strict". If not specified, "Merge" is used. (Alpha) Using the field requires the SupplementalGroupsPolicy feature gate to be enabled and the container runtime must implement support for this feature. Note that this field cannot be set when spec.os.name is windows.
`sysctls`	`array`	Sysctls hold a list of namespaced sysctls used for the pod. Pods with unsupported sysctls (by the container runtime) might fail to launch. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options within a container's SecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.securityContext.seLinuxOptions

Description

The SELinux context to be applied to all containers. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in SecurityContext.

If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.securityContext.seccompProfile

Description

The seccomp options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.securityContext.supplementalGroups

Description

A list of groups applied to the first process run in each container, in addition to the container's primary GID and fsGroup (if specified). If the SupplementalGroupsPolicy feature is enabled, the supplementalGroupsPolicy field determines whether these are in addition to or instead of any group memberships defined in the container image. If unspecified, no additional groups are added, though group memberships defined in the container image may still be used, depending on the supplementalGroupsPolicy field. Note that this field cannot be set when spec.os.name is windows.

Type

`array`

.spec.workloads[].template.spec.securityContext.supplementalGroups[]

Type

`integer`

.spec.workloads[].template.spec.securityContext.sysctls

Description

Sysctls hold a list of namespaced sysctls used for the pod. Pods with unsupported sysctls (by the container runtime) might fail to launch. Note that this field cannot be set when spec.os.name is windows.

Type

`array`

.spec.workloads[].template.spec.securityContext.sysctls[]

Description

Sysctl defines a kernel parameter to be set

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	Name of a property to set
`value`	`string`	Value of a property to set

.spec.workloads[].template.spec.securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options within a container's SecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.

Property	Type	Description
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.tolerations

Description

If specified, the pod's tolerations.

Type

`array`

.spec.workloads[].template.spec.tolerations[]

Description

The pod this Toleration is attached to tolerates any taint that matches the triple <key,value,effect> using the matching operator <operator>.

Type

`object`

Property	Type	Description
`effect`	`string`	Effect indicates the taint effect to match. Empty means match all taint effects. When specified, allowed values are NoSchedule, PreferNoSchedule and NoExecute.
`key`	`string`	Key is the taint key that the toleration applies to. Empty means match all taint keys. If the key is empty, operator must be Exists; this combination means to match all values and all keys.
`operator`	`string`	Operator represents a key's relationship to the value. Valid operators are Exists and Equal. Defaults to Equal. Exists is equivalent to wildcard for value, so that a pod can tolerate all taints of a particular category.
`tolerationSeconds`	`integer`	TolerationSeconds represents the period of time the toleration (which must be of effect NoExecute, otherwise this field is ignored) tolerates the taint. By default, it is not set, which means tolerate the taint forever (do not evict). Zero and negative values will be treated as 0 (evict immediately) by the system.
`value`	`string`	Value is the taint value the toleration matches to. If the operator is Exists, the value should be empty, otherwise just a regular string.

.spec.workloads[].template.spec.topologySpreadConstraints

Description

TopologySpreadConstraints describes how a group of pods ought to spread across topology domains. Scheduler will schedule pods in a way which abides by the constraints. All topologySpreadConstraints are ANDed.

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[]

Description

TopologySpreadConstraint specifies how to spread matching pods among the given topology.

Type

`object`

Required

`maxSkew` `topologyKey` `whenUnsatisfiable`

Property	Type	Description
`labelSelector`	`object`	LabelSelector is used to find matching pods. Pods that match this label selector are counted to determine the number of pods in their corresponding topology domain.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select the pods over which spreading will be calculated. The keys are used to lookup values

Property	Type	Description
		from the incoming pod labels, those key-value labels are ANDed with labelSelector to select the group of existing pods over which spreading will be calculated for the incoming pod. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. MatchLabelKeys cannot be set when LabelSelector isn't set. Keys that don't exist in the incoming pod labels will be ignored. A null or empty list means only match against labelSelector. This is a beta field and requires the MatchLabelKeysInPodTopologySpread feature gate to be enabled (enabled by default).
`maxSkew`	`integer`	MaxSkew describes the degree to which pods may be unevenly distributed. When `whenUnsatisfiable=DoNotSchedule`, it is the maximum permitted difference between the number of matching pods in the target topology and the global minimum. The global minimum is the minimum number of matching pods in an eligible domain or zero if the number of eligible domains is less than MinDomains. For example, in a 3-zone cluster, MaxSkew is set to 1, and pods with the same labelSelector spread as 2/2/1: In this case, the global minimum is 1. | zone1 | zone2 | zone3 | | P P | P P | P | • if MaxSkew is 1, incoming pod can only be scheduled to zone3 to become 2/2/2; scheduling it onto zone1(zone2) would make the ActualSkew(3-1) on zone1(zone2) violate MaxSkew(1).

Property	Type	Description
		• if MaxSkew is 2, incoming pod can be scheduled onto any zone. When `whenUnsatisfiable=ScheduleAnyway`, it is used to give higher precedence to topologies that satisfy it. It's a required field. Default value is 1 and 0 is not allowed.

Property	Type	Description
`minDomains`	`integer`	MinDomains indicates a minimum number of eligible domains. When the number of eligible domains with matching topology keys is less than minDomains, Pod Topology Spread treats "global minimum" as 0, and then the calculation of Skew is performed. And when the number of eligible domains with matching topology keys equals or greater than minDomains, this value has no effect on scheduling. As a result, when the number of eligible domains is less than minDomains, scheduler won't schedule more than maxSkew Pods to those domains. If value is nil, the constraint behaves as if MinDomains is equal to 1. Valid values are integers greater than 0. When value is not nil, WhenUnsatisfiable must be DoNotSchedule. For example, in a 3-zone cluster, MaxSkew is set to 2, MinDomains is set to 5 and pods with the same labelSelector spread as 2/2/2: | zone1 | zone2 | zone3 | | P P | P P | P P | The number of domains is less than 5(MinDomains), so "global minimum" is treated as 0. In this situation, new pod with the same labelSelector cannot be scheduled, because computed skew will be 3(3 - 0) if new Pod is scheduled to any of the three zones, it will violate MaxSkew.
`nodeAffinityPolicy`	`string`	NodeAffinityPolicy indicates how we will treat Pod's nodeAffinity/nodeSelector when calculating pod topology spread skew. Options are:

Property	Type	Description
		• Honor: only nodes matching nodeAffinity/nodeSelector are included in the calculations. • Ignore: nodeAffinity/nodeSelector are ignored. All nodes are included in the calculations. If this value is nil, the behavior is equivalent to the Honor policy. This is a beta-level feature default enabled by the NodeInclusionPolicyInPodTopologySpread feature flag.
`nodeTaintsPolicy`	`string`	NodeTaintsPolicy indicates how we will treat node taints when calculating pod topology spread skew. Options are: • Honor: nodes without taints, along with tainted nodes for which the incoming pod has a toleration, are included. • Ignore: node taints are ignored. All nodes are included. If this value is nil, the behavior is equivalent to the Ignore policy. This is a beta-level feature default enabled by the NodeInclusionPolicyInPodTopologySpread feature flag.
`topologyKey`	`string`	TopologyKey is the key of node labels. Nodes that have a label with this key and identical values are considered to be in the same topology. We consider each <key, value> as a "bucket", and try to put balanced number of pods into each bucket.

Property	Type	Description
		We define a domain as a particular instance of a topology. Also, we define an eligible domain as a domain whose nodes meet the requirements of nodeAffinityPolicy and nodeTaintsPolicy. e.g. If TopologyKey is "kubernetes.io/hostname", each Node is a domain of that topology. And, if TopologyKey is "topology.kubernetes.io/zone", each zone is a domain of that topology. It's a required field.
`whenUnsatisfiable`	`string`	WhenUnsatisfiable indicates how to deal with a pod if it doesn't satisfy the spread constraint. • DoNotSchedule (default) tells the scheduler not to schedule it. • ScheduleAnyway tells the scheduler to schedule the pod in any location, but giving higher precedence to topologies that would help reduce the skew. A constraint is considered "Unsatisfiable" for an incoming pod if and only if every possible node assignment for that pod would violate "MaxSkew" on some topology. For example, in a 3-zone cluster, MaxSkew is set to 1, and pods with the same labelSelector spread as 3/1/1: | zone1 | zone2 | zone3 | | P P P | P | P | If WhenUnsatisfiable is set to DoNotSchedule, incoming pod can only be scheduled to zone2(zone3) to become 3/2/1(3/1/2) as ActualSkew(2-1) on zone2(zone3) satisfies MaxSkew(1). In other words, the cluster can still be imbalanced, but scheduler won't make it *more* imbalanced. It's a required field.

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector

Description

LabelSelector is used to find matching pods. Pods that match this label selector are counted to determine the number of pods in their corresponding topology domain.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.topologySpreadConstraints[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select the pods over which spreading will be calculated. The keys are used to lookup values from the incoming pod labels, those key-value labels are ANDed with labelSelector to select the group of existing pods over which spreading will be calculated for the incoming pod. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. MatchLabelKeys cannot be set when LabelSelector isn't set. Keys that don't exist in the incoming pod labels will be ignored. A null or empty list means only match against labelSelector. This is a beta field and requires the MatchLabelKeysInPodTopologySpread feature gate to be enabled (enabled by default).

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[].matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.volumes

Description

List of volumes that can be mounted by containers belonging to the pod. More info: https://kubernetes.io/docs/concepts/storage/volumes

Type

`array`

.spec.workloads[].template.spec.volumes[]

Description

Volume represents a named volume in a pod that may be accessed by any container in the pod.

Type

`object`

Required

`name`

Property	Type	Description
`awsElasticBlockStore`	`object`	awsElasticBlockStore represents an AWS Disk reso a kubelet's host machine and then exposed to the p https://kubernetes.io/docs/concepts/storage/volume ↗

Property	Type	Description
`azureDisk`	`object`	azureDisk represents an Azure Data Disk mount on mount to the pod.
`azureFile`	`object`	azureFile represents an Azure File Service mount or mount to the pod.
`cephfs`	`object`	cephFS represents a Ceph FS mount on the host tha lifetime
`cinder`	`object`	cinder represents a cinder volume attached and mou machine. More info: https://examples.k8s.io/mysql-c ↗
`configMap`	`object`	configMap represents a configMap that should popu
`csi`	`object`	csi (Container Storage Interface) represents epheme handled by certain external CSI drivers (Beta feature
`downwardAPI`	`object`	downwardAPI represents downward API about the p populate this volume

Property	Type	Description
`emptyDir`	`object`	emptyDir represents a temporary directory that shar More info: https://kubernetes.io/docs/concepts/stora ↗
`ephemeral`	`object`	ephemeral represents a volume that is handled by a The volume's lifecycle is tied to the pod that defines before the pod starts, and deleted when the pod is r Use this if: a) the volume is only needed while the p normal volumes like restoring from snapshot or capa needed, c) the storage driver is specified through a s the storage driver supports dynamic volume provisio PersistentVolumeClaim (see EphemeralVolumeSou information on the connection between this volume t PersistentVolumeClaim). Use PersistentVolumeClaim or one of the vendor-sp volumes that persist for longer than the lifecycle of a Use CSI for light-weight local ephemeral volumes if t meant to be used that way - see the documentation information. A pod can use both types of ephemeral volumes and at the same time.
`fc`	`object`	fc represents a Fibre Channel resource that is attach machine and then exposed to the pod.

Property	Type	Description
`flexVolume`	`object`	flexVolume represents a generic volume resource th provisioned/attached using an exec based plugin.
`flocker`	`object`	flocker represents a Flocker volume attached to a ku This depends on the Flocker control service being ru
`gcePersistentDisk`	`object`	gcePersistentDisk represents a GCE Disk resource kubelet's host machine and then exposed to the pod https://kubernetes.io/docs/concepts/storage/volumes
`gitRepo`	`object`	gitRepo represents a git repository at a particular rev GitRepo is deprecated. To provision a container with EmptyDir into an InitContainer that clones the repo u the EmptyDir into the Pod's container.
`glusterfs`	`object`	glusterfs represents a Glusterfs mount on the host th lifetime. More info: https://examples.k8s.io/volumes/ ↗
`hostPath`	`object`	hostPath represents a pre-existing file or directory o that is directly exposed to the container. This is gene agents or other privileged things that are allowed to Most containers will NOT need this. More info: https://kubernetes.io/docs/concepts/storage/volumes

Property	Type	Description
`image`	`object`	image represents an OCI object (a container image mounted on the kubelet's host machine. The volume startup depending on which PullPolicy value is provi • Always: the kubelet always attempts to pull the re creation will fail If the pull fails. • Never: the kubelet never pulls the reference and image or artifact. Container creation will fail if the present. • IfNotPresent: the kubelet pulls if the reference isr disk. Container creation will fail if the reference is pull fails. The volume gets re-resolved if the pod gets deleted means that new remote content will become availab failure to resolve or pull the image during pod startup from starting and may add significant latency. Failure normal volume backoff and will be reported on the p message. The types of objects that may be mounted defined by the container runtime implementation on minimum must include all valid types supported by tl field. The OCI object gets mounted in a single direct (spec.containers[*].volumeMounts.mountPath) by me *layers in the same way as for container images. The mounted read-only (ro) and non-executable files (no mounts for containers are not supported (spec.containers[*].volumeMounts.subpath). The field spec.securityContext.fsGroupChangePolicy has no type.

Property	Type	Description
`iscsi`	`object`	iscsi represents an ISCSI Disk resource that is attac machine and then exposed to the pod. More info: https://examples.k8s.io/volumes/iscsi/README.md ↗
`name`	`string`	name of the volume. Must be a DNS_LABEL and un More info: https://kubernetes.io/docs/concepts/overv objects/names/#names ↗
`nfs`	`object`	nfs represents an NFS mount on the host that share info: https://kubernetes.io/docs/concepts/storage/vol
`persistentVolumeClaim`	`object`	persistentVolumeClaimVolumeSource represents a r PersistentVolumeClaim in the same namespace. Mo https://kubernetes.io/docs/concepts/storage/persiste volumes#persistentvolumeclaims ↗
`photonPersistentDisk`	`object`	photonPersistentDisk represents a PhotonController attached and mounted on kubelets host machine
`portworxVolume`	`object`	portworxVolume represents a portworx volume attac kubelets host machine
`projected`	`object`	projected items for all in one resources secrets, conf downward API

Property	Type	Description
`quobyte`	`object`	quobyte represents a Quobyte mount on the host tha lifetime
`rbd`	`object`	rbd represents a Rados Block Device mount on the pod's lifetime. More info: https://examples.k8s.io/volumes/rbd/README.md ↗
`scaleIO`	`object`	scaleIO represents a ScaleIO persistent volume atta Kubernetes nodes.
`secret`	`object`	secret represents a secret that should populate this https://kubernetes.io/docs/concepts/storage/volumes
`storageos`	`object`	storageOS represents a StorageOS volume attache Kubernetes nodes.
`vsphereVolume`	`object`	vsphereVolume represents a vSphere volume attach kubelets host machine

.spec.workloads[].template.spec.volumes[].awsElasticBlockStore

Description

awsElasticBlockStore represents an AWS Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info:

https://kubernetes.io/docs/concepts/storage/volumes#awselasticblockstore

Type

`object`

Required

`volumeID`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type of the volume that you want to mou Ensure that the filesystem type is supported by the host operatir Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if ur More info: https://kubernetes.io/docs/concepts/storage/volumes#awselastic ↗
`partition`	`integer`	partition is the partition in the volume that you want to mount. If the default is to mount by volume name. Examples: For volume you specify the partition as "1". Similarly, the volume partition for is "0" (or you can leave the property empty).
`readOnly`	`boolean`	readOnly value true will force the readOnly setting in VolumeMo info: https://kubernetes.io/docs/concepts/storage/volumes#awselastic ↗
`volumeID`	`string`	volumeID is unique ID of the persistent disk resource in AWS (A EBS volume). More info: https://kubernetes.io/docs/concepts/storage/volumes#awselastic ↗

.spec.workloads[].template.spec.volumes[].azureDisk

Description

azureDisk represents an Azure Data Disk mount on the host and bind mount to the pod.

Type

`object`

Required

`diskName` `diskURI`

Property	Type	Description
`cachingMode`	`string`	cachingMode is the Host Caching mode: None, Read Only, Read Write.
`diskName`	`string`	diskName is the Name of the data disk in the blob storage
`diskURI`	`string`	diskURI is the URI of data disk in the blob storage
`fsType`	`string`	fsType is Filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`kind`	`string`	kind expected values are Shared: multiple blob disks per storage account Dedicated: single blob disk per storage account Managed: azure managed data disk (only in managed availability set). defaults to shared

Property	Type	Description
`readOnly`	`boolean`	readOnly Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.

.spec.workloads[].template.spec.volumes[].azureFile

Description

azureFile represents an Azure File Service mount on the host and bind mount to the pod.

Type

`object`

Required

`secretName` `shareName`

Property	Type	Description
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretName`	`string`	secretName is the name of secret that contains Azure Storage Account Name and Key
`shareName`	`string`	shareName is the azure share Name

.spec.workloads[].template.spec.volumes[].cephfs

Description

cephFS represents a Ceph FS mount on the host that shares a pod's lifetime

Type

`object`

Required

`monitors`

Property	Type	Description
`monitors`	`array`	monitors is Required: Monitors is a collection of Ceph monitors More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
`path`	`string`	path is Optional: Used as the mounted root, rather than the full Ceph tree, default is /
`readOnly`	`boolean`	readOnly is Optional: Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
`secretFile`	`string`	secretFile is Optional: SecretFile is the path to key ring for User, default is /etc/ceph/user.secret More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗

Property	Type	Description
`secretRef`	`object`	secretRef is Optional: SecretRef is reference to the authentication secret for User, default is empty. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
`user`	`string`	user is optional: User is the rados user name, default is admin More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗

.spec.workloads[].template.spec.volumes[].cephfs.monitors

Description

monitors is Required: Monitors is a collection of Ceph monitors More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it

Type

`array`

.spec.workloads[].template.spec.volumes[].cephfs.monitors[]

Type

`string`

.spec.workloads[].template.spec.volumes[].cephfs.secretRef

Description

secretRef is Optional: SecretRef is reference to the authentication secret for User, default is empty. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].cinder

Description

cinder represents a cinder volume attached and mounted on kubelets host machine. More info: https://examples.k8s.io/mysql-cinder-pd/README.md

Type

`object`

Required

`volumeID`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗
`secretRef`	`object`	secretRef is optional: points to a secret object containing parameters used to connect to OpenStack.
`volumeID`	`string`	volumeID used to identify the volume in cinder. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗

.spec.workloads[].template.spec.volumes[].cinder.secretRef

Description

secretRef is optional: points to a secret object containing parameters used to connect to OpenStack.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].configMap

Description

configMap represents a configMap that should populate this volume

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	defaultMode is optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`items`	`array`	items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified

Property	Type	Description
		paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	optional specify whether the ConfigMap or its keys must be defined

.spec.workloads[].template.spec.volumes[].configMap.items

Description

items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].configMap.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].csi

Description

csi (Container Storage Interface) represents ephemeral storage that is handled by certain external CSI drivers (Beta feature).

Type

`object`

Required

`driver`

Property	Type	Description
`driver`	`string`	driver is the name of the CSI driver that handles this volume. Consult with your admin for the correct name as registered in the cluster.
`fsType`	`string`	fsType to mount. Ex. "ext4", "xfs", "ntfs". If not provided, the empty value is passed to the associated CSI driver which will determine the default filesystem to apply.
`nodePublishSecretRef`	`object`	nodePublishSecretRef is a reference to the secret object containing sensitive information to pass to the CSI driver to complete the CSI NodePublishVolume and NodeUnpublishVolume calls. This field is optional, and may be empty if no secret is required. If the secret object contains more than one secret, all secret references are passed.
`readOnly`	`boolean`	readOnly specifies a read-only configuration for the volume. Defaults to false (read/write).

Property	Type	Description
`volumeAttributes`	`object`	volumeAttributes stores driver-specific properties that are passed to the CSI driver. Consult your driver's documentation for supported values.

.spec.workloads[].template.spec.volumes[].csi.nodePublishSecretRef

Description

nodePublishSecretRef is a reference to the secret object containing sensitive information to pass to the CSI driver to complete the CSI NodePublishVolume and NodeUnpublishVolume calls. This field is optional, and may be empty if no secret is required. If the secret object contains more than one secret, all secret references are passed.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].csi.volumeAttributes

Description

volumeAttributes stores driver-specific properties that are passed to the CSI driver. Consult your driver's documentation for supported values.

Type

`object`

.spec.workloads[].template.spec.volumes[].downwardAPI

Description

downwardAPI represents downward API about the pod that should populate this volume

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	Optional: mode bits to use on created files by default. Must be a Optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`items`	`array`	Items is a list of downward API volume file

.spec.workloads[].template.spec.volumes[].downwardAPI.items

Description

Items is a list of downward API volume file

Type

`array`

.spec.workloads[].template.spec.volumes[].downwardAPI.items[]

Description

DownwardAPIVolumeFile represents information to create the file containing the pod field

Type

`object`

Required

`path`

Property	Type	Description
`fieldRef`	`object`	Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.
`mode`	`integer`	Optional: mode bits used to set permissions on this file, must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.

Property	Type	Description
`path`	`string`	Required: Path is the relative path name of the file to be created. Must not be absolute or contain the '..' path. Must be utf-8 encoded. The first item of the relative path must not start with '..'
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

.spec.workloads[].template.spec.volumes[].downwardAPI.items[].fieldRef

Description

Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".

Property	Type	Description
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.volumes[].downwardAPI.items[].resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.volumes[].emptyDir

Description

emptyDir represents a temporary directory that shares a pod's lifetime. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir

Type

`object`

Property	Type	Description
`medium`	`string`	medium represents what type of storage medium should back this directory. The default is "" which means to use the node's default medium. Must be an empty string (default) or Memory. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir ↗
`sizeLimit`		sizeLimit is the total amount of local storage required for this EmptyDir volume. The size limit is also applicable for memory medium. The maximum usage on memory medium EmptyDir would be the minimum value between the SizeLimit specified here and the sum of memory limits of all containers in a pod. The default is nil which means that the limit is undefined. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir ↗

.spec.workloads[].template.spec.volumes[].ephemeral

Description

ephemeral represents a volume that is handled by a cluster storage driver. The volume's lifecycle is tied to the pod that defines it - it will be created before the pod starts, and deleted when the pod is removed. Use this if: a) the volume is only needed while the pod runs, b) features of normal volumes like restoring from snapshot or capacity tracking are needed, c) the storage driver is specified through a storage class, and d) the storage driver supports dynamic volume provisioning through a PersistentVolumeClaim (see

EphemeralVolumeSource for more information on the connection between this volume type and PersistentVolumeClaim). Use PersistentVolumeClaim or one of the vendor-specific APIs for volumes that persist for longer than the lifecycle of an individual pod. Use CSI for light-weight local ephemeral volumes if the CSI driver is meant to be used that way - see the documentation of the driver for more information. A pod can use both types of ephemeral volumes and persistent volumes at the same time.

Type

`object`

Property	Type	Description
`volumeClaimTemplate`	`object`	Will be used to create a stand-alone PVC to provision the volume. The pod in which this EphemeralVolumeSource is embedded will be the owner of the PVC, i.e. the PVC will be deleted together with the pod. The name of the PVC will be `<pod name>-<volume name>` where `<volume name>` is the name from the `PodSpec.Volumes` array entry. Pod validation will reject the pod if the concatenated name is not valid for a PVC (for example, too long). An existing PVC with that name that is not owned by the pod will *not* be used for the pod to avoid using an unrelated volume by mistake. Starting the pod is then blocked until the unrelated PVC is removed. If such a pre-created PVC is meant to be used by the pod, the PVC has to updated with an owner reference to the pod once the pod exists. Normally this should not be necessary, but it may be useful when manually reconstructing a broken cluster. This field is read-only and no changes will be made by Kubernetes to the PVC after it has been created.

Property	Type	Description
		Required, must not be nil.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate

Description

Will be used to create a stand-alone PVC to provision the volume. The pod in which this EphemeralVolumeSource is embedded will be the owner of the PVC, i.e. the PVC will be deleted together with the pod. The name of the PVC will be `<pod name>-<volume name>` where `<volume name>` is the name from the `PodSpec.Volumes` array entry. Pod validation will reject the pod if the concatenated name is not valid for a PVC (for example, too long). An existing PVC with that name that is not owned by the pod will *not* be used for the pod to avoid using an unrelated volume by mistake. Starting the pod is then blocked until the unrelated PVC is removed. If such a pre-created PVC is meant to be used by the pod, the PVC has to updated with an owner reference to the pod once the pod exists. Normally this should not be necessary, but it may be useful when manually reconstructing a broken cluster. This field is read-only and no changes will be made by Kubernetes to the PVC after it has been created. Required, must not be nil.

Type

`object`

Required

`spec`

Property	Type	Description
`metadata`	`ObjectMeta` ↗	May contain labels and annotations that will be copied into the PVC when creating it. No other fields are allowed and will be rejected during validation.

Property	Type	Description
`spec`	`object`	The specification for the PersistentVolumeClaim. The entire content is copied unchanged into the PVC that gets created from this template. The same fields as in a PersistentVolumeClaim are also valid here.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec

Description

The specification for the PersistentVolumeClaim. The entire content is copied unchanged into the PVC that gets created from this template. The same fields as in a PersistentVolumeClaim are also valid here.

Type

`object`

Property	Type	Description
`accessModes`	`array`	accessModes contains the desired access mod volume should have. More info: https://kubernetes.io/docs/concepts/storage/per volumes#access-modes-1 ↗
`dataSource`	`object`	dataSource field can be used to specify either: • An existing VolumeSnapshot object (snapshot.storage.k8s.io/VolumeSnapshot) • An existing PVC (PersistentVolumeClaim) If provisioner or an external controller can sup the specified data source, it will create a nev

Property	Type	Description
		volume based on the contents of the specifie source. When the AnyVolumeDataSource fe gate is enabled, dataSource contents will be to dataSourceRef, and dataSourceRef conte be copied to dataSource when dataSourceRef.namespace is not specified. namespace is specified, then dataSourceRe not be copied to dataSource.
`dataSourceRef`	`object`	dataSourceRef specifies the object from which t populate the volume with data, if a non-empty v is desired. This may be any object from a non-e API group (non core object) or a PersistentVolumeClaim object. When this field i specified, volume binding will only succeed if th of the specified object matches some installed v populator or dynamic provisioner. This field will the functionality of the dataSource field and as s both fields are non-empty, they must have the s value. For backwards compatibility, when name isn't specified in dataSourceRef, both fields (dataSource and dataSourceRef) will be set to t same value automatically if one of them is empt the other is non-empty. When namespace is sp in dataSourceRef, dataSource isn't set to the sa value and must be empty. There are three impo differences between dataSource and dataSourc • While dataSource only allows two specific ty objects, dataSourceRef allows any non-core as well as PersistentVolumeClaim objects. • While dataSource ignores disallowed values (dropping them), dataSourceRef preserves a

Property	Type	Description
		values, and generates an error if a disallowe value is specified. • While dataSource only allows local objects, dataSourceRef allows objects in any names (Beta) Using this field requires the AnyVolumeDataSource feature gate to be er (Alpha) Using the namespace field of dataSourceRef requires the CrossNamespaceVolumeDataSource featur to be enabled.
`resources`	`object`	resources represents the minimum resources th volume should have. If RecoverVolumeExpansionFailure feature is ena users are allowed to specify resource requireme that are lower than previous value but must still higher than capacity recorded in the status field claim. More info: https://kubernetes.io/docs/concepts/storage/per volumes#resources ↗
`selector`	`object`	selector is a label query over volumes to consid binding.
`storageClassName`	`string`	storageClassName is the name of the StorageC required by the claim. More info: https://kubernetes.io/docs/concepts/storage/per volumes#class-1 ↗

Property	Type	Description
`volumeAttributesClassName`	`string`	volumeAttributesClassName may be used to se VolumeAttributesClass used by this claim. If spe the CSI driver will create or update the volume attributes defined in the corresponding VolumeAttributesClass. This has a different pur than storageClassName, it can be changed afte claim is created. An empty string value means t VolumeAttributesClass will be applied to the cla it's not allowed to reset this field to empty string is set. If unspecified and the PersistentVolumeC unbound, the default VolumeAttributesClass wil by the persistentvolume controller if it exists. If t resource referred to by volumeAttributesClass d not exist, this PersistentVolumeClaim will be se Pending state, as reflected by the modifyVolum field, until such as a resource exists. More info: https://kubernetes.io/docs/concepts/storage/vol attributes-classes/↗ (Beta) Using this field requ the VolumeAttributesClass feature gate to be en (off by default).
`volumeMode`	`string`	volumeMode defines what type of volume is req by the claim. Value of Filesystem is implied whe included in claim spec.
`volumeName`	`string`	volumeName is the binding reference to the PersistentVolume backing this claim.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.accessModes

Description

accessModes contains the desired access modes the volume should have. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#access-modes-1

Type

`array`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.accessModes[]

Type

`string`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.dataSource

Description

dataSource field can be used to specify either: * An existing VolumeSnapshot object (snapshot.storage.k8s.io/VolumeSnapshot) * An existing PVC (PersistentVolumeClaim) If the provisioner or an external controller can support the specified data source, it will create a new volume based on the contents of the specified data source. When the AnyVolumeDataSource feature gate is enabled, dataSource contents will be copied to dataSourceRef, and dataSourceRef contents will be copied to dataSource when dataSourceRef.namespace is not specified. If the namespace is specified, then dataSourceRef will not be copied to dataSource.

Type

`object`

Required

`kind` `name`

Property	Type	Description
`apiGroup`	`string`	APIGroup is the group for the resource being referenced. If APIGroup is not specified, the specified Kind must be in the core API group. For any other third-party types, APIGroup is required.
`kind`	`string`	Kind is the type of resource being referenced
`name`	`string`	Name is the name of resource being referenced

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.dataSourceRef

Description

dataSourceRef specifies the object from which to populate the volume with data, if a non-empty volume is desired. This may be any object from a non-empty API group (non core object) or a PersistentVolumeClaim object. When this field is specified, volume binding will only succeed if the type of the specified object matches some installed volume populator or dynamic provisioner. This field will replace the functionality of the dataSource field and as such if both fields are non-empty, they must have the same value. For backwards compatibility, when namespace isn't specified in dataSourceRef, both fields (dataSource and dataSourceRef) will be set to the same value automatically if one of them is empty and the other is non-empty. When namespace is specified in dataSourceRef, dataSource isn't set to the same value and must be empty. There are three important differences between dataSource and dataSourceRef: * While dataSource only allows two specific types of objects, dataSourceRef allows any non-core object, as well as PersistentVolumeClaim objects. * While dataSource ignores disallowed values (dropping them), dataSourceRef preserves all values, and generates an error if a disallowed value is specified. * While dataSource only allows local objects, dataSourceRef allows objects in any namespaces. (Beta) Using this field requires the AnyVolumeDataSource feature gate to be enabled.

(Alpha) Using the namespace field of dataSourceRef requires the CrossNamespaceVolumeDataSource feature gate to be enabled.

Type

`object`

Required

`kind` `name`

Property	Type	Description
`apiGroup`	`string`	APIGroup is the group for the resource being referenced. If APIGroup is not specified, the specified Kind must be in the core API group. For any other third-party types, APIGroup is required.
`kind`	`string`	Kind is the type of resource being referenced
`name`	`string`	Name is the name of resource being referenced
`namespace`	`string`	Namespace is the namespace of resource being referenced Note that when a namespace is specified, a gateway.networking.k8s.io/ReferenceGrant object is required in the referent namespace to allow that namespace's owner to accept the reference. See the ReferenceGrant documentation for details. (Alpha) This field requires the CrossNamespaceVolumeDataSource feature gate to be enabled.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources

Description

resources represents the minimum resources the volume should have. If RecoverVolumeExpansionFailure feature is enabled users are allowed to specify resource requirements that are lower than previous value but must still be higher than capacity recorded in the status field of the claim. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#resources

Type

`object`

Property	Type	Description
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector

Description

selector is a label query over volumes to consider for binding.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.

Property	Type	Description
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.volumes[].fc

Description

fc represents a Fibre Channel resource that is attached to a kubelet's host machine and then exposed to the pod.

Type

`object`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`lun`	`integer`	lun is Optional: FC target lun number
`readOnly`	`boolean`	readOnly is Optional: Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in

Property	Type	Description
		VolumeMounts.
`targetWWNs`	`array`	targetWWNs is Optional: FC target worldwide names (WWNs)
`wwids`	`array`	wwids Optional: FC volume world wide identifiers (wwids) Either wwids or combination of targetWWNs and lun must be set, but not both simultaneously.

.spec.workloads[].template.spec.volumes[].fc.targetWWNs

Description

targetWWNs is Optional: FC target worldwide names (WWNs)

Type

`array`

.spec.workloads[].template.spec.volumes[].fc.targetWWNs[]

Type

`string`

.spec.workloads[].template.spec.volumes[].fc.wwids

Description

wwids Optional: FC volume world wide identifiers (wwids) Either wwids or combination of targetWWNs and lun must be set, but not both simultaneously.

Type

`array`

.spec.workloads[].template.spec.volumes[].fc.wwids[]

Type

`string`

.spec.workloads[].template.spec.volumes[].flexVolume

Description

flexVolume represents a generic volume resource that is provisioned/attached using an exec based plugin.

Type

`object`

Required

`driver`

Property	Type	Description
`driver`	`string`	driver is the name of the driver to use for this volume.
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". The default filesystem depends on FlexVolume script.
`options`	`object`	options is Optional: this field holds extra command options if any.

Property	Type	Description
`readOnly`	`boolean`	readOnly is Optional: defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretRef`	`object`	secretRef is Optional: secretRef is reference to the secret object containing sensitive information to pass to the plugin scripts. This may be empty if no secret object is specified. If the secret object contains more than one secret, all secrets are passed to the plugin scripts.

.spec.workloads[].template.spec.volumes[].flexVolume.options

Description

options is Optional: this field holds extra command options if any.

Type

`object`

.spec.workloads[].template.spec.volumes[].flexVolume.secretRef

Description

secretRef is Optional: secretRef is reference to the secret object containing sensitive information to pass to the plugin scripts. This may be empty if no secret object is specified. If the secret object contains more than one secret, all secrets are passed to the plugin scripts.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].flocker

Description

flocker represents a Flocker volume attached to a kubelet's host machine. This depends on the Flocker control service being running

Type

`object`

Property	Type	Description
`datasetName`	`string`	datasetName is Name of the dataset stored as metadata -> name on the dataset for Flocker should be considered as deprecated
`datasetUUID`	`string`	datasetUUID is the UUID of the dataset. This is unique identifier of a Flocker dataset

.spec.workloads[].template.spec.volumes[].gcePersistentDisk

Description

gcePersistentDisk represents a GCE Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersistentdisk

Type

`object`

Required

`pdName`

Property	Type	Description
`fsType`	`string`	fsType is filesystem type of the volume that you want to mount. Ensure that the filesystem type is supported by the host operatir system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "e unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗
`partition`	`integer`	partition is the partition in the volume that you want to mount. If omitted, the default is to mount by volume name. Examples: For volume /dev/sda1, you specify the partition as "1". Similarly, the partition for /dev/sda is "0" (or you can leave the property empty info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗
`pdName`	`string`	pdName is unique name of the PD resource in GCE. Used to ide the disk in GCE. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly here will force the ReadOnly setting in VolumeMounts Defaults to false. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗

.spec.workloads[].template.spec.volumes[].gitRepo

Description

gitRepo represents a git repository at a particular revision. DEPRECATED: GitRepo is deprecated. To provision a container with a git repo, mount an EmptyDir into an InitContainer that clones the repo using git, then mount the EmptyDir into the Pod's container.

Type

`object`

Required

`repository`

Property	Type	Description
`directory`	`string`	directory is the target directory name. Must not contain or start with '..'. If '.' is supplied, the volume directory will be the git repository. Otherwise, if specified, the volume will contain the git repository in the subdirectory with the given name.
`repository`	`string`	repository is the URL

Property	Type	Description
`revision`	`string`	revision is the commit hash for the specified revision.

.spec.workloads[].template.spec.volumes[].glusterfs

Description

glusterfs represents a Glusterfs mount on the host that shares a pod's lifetime. More info: https://examples.k8s.io/volumes/glusterfs/README.md

Type

`object`

Required

`endpoints` `path`

Property	Type	Description
`endpoints`	`string`	endpoints is the endpoint name that details Glusterfs topology. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗
`path`	`string`	path is the Glusterfs volume path. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly here will force the Glusterfs volume to be mounted with read-only permissions. Defaults to false. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗

.spec.workloads[].template.spec.volumes[].hostPath

Description

hostPath represents a pre-existing file or directory on the host machine that is directly exposed to the container. This is generally used for system agents or other privileged things that are allowed to see the host machine. Most containers will NOT need this. More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath

Type

`object`

Required

`path`

Property	Type	Description
`path`	`string`	path of the directory on the host. If the path is a symlink, it will follow the link to the real path. More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath ↗
`type`	`string`	type for HostPath Volume Defaults to "" More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath ↗

.spec.workloads[].template.spec.volumes[].image

Description

image represents an OCI object (a container image or artifact) pulled and mounted on the kubelet's host machine. The volume is resolved at pod startup depending on which PullPolicy value is provided: - Always: the kubelet always attempts to pull the reference. Container creation will fail If the pull fails. - Never: the kubelet never pulls the reference and only uses a local image or artifact. Container creation will fail if the reference isn't present. - IfNotPresent: the kubelet pulls if the reference isn't already present on disk. Container creation will fail if the reference isn't present and the pull fails. The volume gets re-resolved if the pod gets deleted and recreated, which means that new remote content will become available on pod recreation. A failure to resolve or pull the image during pod startup will block containers from starting and may add significant latency. Failures will be retried using normal volume backoff and will be reported on the pod reason and message. The types of objects that may be mounted by this volume are defined by the container runtime implementation on a host machine and at minimum must include all valid types supported by the container image field. The OCI object gets mounted in a single directory (spec.containers[*].volumeMounts.mountPath) by merging the manifest layers in the same way as for container images. The volume will be mounted read-only (ro) and non-executable files (noexec). Sub path mounts for containers are not supported (spec.containers[*].volumeMounts.subpath). The field spec.securityContext.fsGroupChangePolicy has no effect on this volume type.

Type

`object`

Property	Type	Description
`pullPolicy`	`string`	Policy for pulling OCI objects. Possible values are: Always: the kubelet always attempts to pull the reference. Container creation will fail If the pull fails. Never: the kubelet never pulls the reference and only uses a local image or artifact. Container creation will fail if the reference isn't present. IfNotPresent: the kubelet pulls if the reference isn't already present on disk. Container creation will fail if the reference isn't present and the pull fails. Defaults to Always if :latest tag is specified, or IfNotPresent otherwise.
`reference`	`string`	Required: Image or artifact reference to be used. Behaves in the same way as pod.spec.containers[*].image. Pull secrets will be assembled in the same way as for the container image by looking up node credentials, SA image pull secrets, and pod spec image pull secrets. More info: https://kubernetes.io/docs/concepts/containers/images ↗ This field is optional to allow higher level config management to default or override container images in workload controllers like Deployments and StatefulSets.

.spec.workloads[].template.spec.volumes[].iscsi

Description

iscsi represents an ISCSI Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info: https://examples.k8s.io/volumes/iscsi/README.md

Type

`object`

Required

`iqn` `lun` `targetPortal`

Property	Type	Description
`chapAuthDiscovery`	`boolean`	chapAuthDiscovery defines whether support iSCSI Discovery CHAP authentication
`chapAuthSession`	`boolean`	chapAuthSession defines whether support iSCSI Sessior CHAP authentication
`fsType`	`string`	fsType is the filesystem type of the volume that you want to mount. Tip: Ensure that the filesystem type is supporte by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#isc ↗
`initiatorName`	`string`	initiatorName is the custom iSCSI Initiator Name. If initiatorName is specified with iscsiInterface simultaneously, new iSCSI interface : will be created for the connection.
`iqn`	`string`	iqn is the target iSCSI Qualified Name.
`iscsiInterface`	`string`	iscsiInterface is the interface Name that uses an iSCSI transport. Defaults to 'default' (tcp).
`lun`	`integer`	lun represents iSCSI Target Lun number.

Property	Type	Description
`portals`	`array`	portals is the iSCSI Target Portal List. The portal is either an IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).
`readOnly`	`boolean`	readOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false.
`secretRef`	`object`	secretRef is the CHAP Secret for iSCSI target and initiato authentication
`targetPortal`	`string`	targetPortal is iSCSI Target Portal. The Portal is either ar IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).

.spec.workloads[].template.spec.volumes[].iscsi.portals

Description

portals is the iSCSI Target Portal List. The portal is either an IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).

Type

`array`

.spec.workloads[].template.spec.volumes[].iscsi.portals[]

Type

`string`

.spec.workloads[].template.spec.volumes[].iscsi.secretRef

Description

secretRef is the CHAP Secret for iSCSI target and initiator authentication

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].nfs

Description

nfs represents an NFS mount on the host that shares a pod's lifetime More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs

Type

`object`

Required

`path` `server`

Property	Type	Description
`path`	`string`	path that is exported by the NFS server. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly here will force the NFS export to be mounted with read-only permissions. Defaults to false. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗
`server`	`string`	server is the hostname or IP address of the NFS server. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗

.spec.workloads[].template.spec.volumes[].persistentVolumeClaim

Description

persistentVolumeClaimVolumeSource represents a reference to a PersistentVolumeClaim in the same namespace. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#persistentvolumeclaims

Type

`object`

Required

`claimName`

Property	Type	Description
`claimName`	`string`	claimName is the name of a PersistentVolumeClaim in the same namespace as the pod using this volume. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#persistentvolumeclaims ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly Will force the ReadOnly setting in VolumeMounts. Default false.

.spec.workloads[].template.spec.volumes[].photonPersistentDisk

Description

photonPersistentDisk represents a PhotonController persistent disk attached and mounted on kubelets host machine

Type

`object`

Required

`pdID`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`pdID`	`string`	pdID is the ID that identifies Photon Controller persistent disk

.spec.workloads[].template.spec.volumes[].portworxVolume

Description

portworxVolume represents a portworx volume attached and mounted on kubelets host machine

Type

`object`

Required

`volumeID`

Property	Type	Description
`fsType`	`string`	fSType represents the filesystem type to mount Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs". Implicitly inferred to be "ext4" if unspecified.
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`volumeID`	`string`	volumeID uniquely identifies a Portworx volume

.spec.workloads[].template.spec.volumes[].projected

Description

projected items for all in one resources secrets, configmaps, and downward API

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	defaultMode are the mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`sources`	`array`	sources is the list of volume projections. Each entry in this list handles one source.

.spec.workloads[].template.spec.volumes[].projected.sources

Description

sources is the list of volume projections. Each entry in this list handles one source.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[]

Description

Projection that may be projected along with other supported volume types. Exactly one of these fields must be set.

Type

`object`

Property	Type	Description
`clusterTrustBundle`	`object`	ClusterTrustBundle allows a pod to access the `.spec.trustBundle` field of ClusterTrustBundle objects in an auto-updating file. Alpha, gated by the ClusterTrustBundleProjection feature gate. ClusterTrustBundle objects can either be selected by name, or by the combination of signer name and a label selector. Kubelet performs aggressive normalization of the PEM contents written into the pod filesystem. Esoteric PEM features such as inter-block comments and block headers are stripped. Certificates are deduplicated. The ordering of certificates within the file is arbitrary, and Kubelet may change the order over time.
`configMap`	`object`	configMap information about the configMap data to project
`downwardAPI`	`object`	downwardAPI information about the downwardAPI data to project
`secret`	`object`	secret information about the secret data to project

Property	Type	Description
`serviceAccountToken`	`object`	serviceAccountToken is information about the serviceAccountToken data to project

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle

Description

ClusterTrustBundle allows a pod to access the `.spec.trustBundle` field of ClusterTrustBundle objects in an auto-updating file. Alpha, gated by the ClusterTrustBundleProjection feature gate. ClusterTrustBundle objects can either be selected by name, or by the combination of signer name and a label selector. Kubelet performs aggressive normalization of the PEM contents written into the pod filesystem. Esoteric PEM features such as inter-block comments and block headers are stripped. Certificates are deduplicated. The ordering of certificates within the file is arbitrary, and Kubelet may change the order over time.

Type

`object`

Required

`path`

Property	Type	Description
`labelSelector`	`object`	Select all ClusterTrustBundles that match this label selector. Only has effect if signerName is set. Mutually-exclusive with name. If unset, interpreted as "match nothing". If set but empty, interpreted as "match everything".

Property	Type	Description
`name`	`string`	Select a single ClusterTrustBundle by object name. Mutually-exclusive with signerName and labelSelector.
`optional`	`boolean`	If true, don't block pod startup if the referenced ClusterTrustBundle(s) aren't available. If using name, then the named ClusterTrustBundle is allowed not to exist. If using signerName, then the combination of signerName and labelSelector is allowed to match zero ClusterTrustBundles.
`path`	`string`	Relative path from the volume root to write the bundle.
`signerName`	`string`	Select all ClusterTrustBundles that match this signer name. Mutually-exclusive with name. The contents of all selected ClusterTrustBundles will be unified and deduplicated.

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector

Description

Select all ClusterTrustBundles that match this label selector. Only has effect if signerName is set. Mutually-exclusive with name. If unset, interpreted as "match nothing". If set but empty, interpreted as "match everything".

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.volumes[].projected.sources[].configMap

Description

configMap information about the configMap data to project

Type

`object`

Property	Type	Description
`items`	`array`	items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	optional specify whether the ConfigMap or its keys must be defined

.spec.workloads[].template.spec.volumes[].projected.sources[].configMap.items

Description

items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will

error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].configMap.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.

Property	Type	Description
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI

Description

downwardAPI information about the downwardAPI data to project

Type

`object`

Property	Type	Description
`items`	`array`	Items is a list of DownwardAPIVolume file

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items

Description

Items is a list of DownwardAPIVolume file

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items[]

Description

DownwardAPIVolumeFile represents information to create the file containing the pod field

Type

`object`

Required

`path`

Property	Type	Description
`fieldRef`	`object`	Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.
`mode`	`integer`	Optional: mode bits used to set permissions on this file, must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	Required: Path is the relative path name of the file to be created. Must not be absolute or contain the '..' path. Must be utf-8 encoded. The first item of the relative path must not start with '..'
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory,

Property	Type	Description
		requests.cpu and requests.memory) are currently supported.

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items[].fieldRef

Description

Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items[].resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.volumes[].projected.sources[].secret

Description

secret information about the secret data to project

Type

`object`

Property	Type	Description
`items`	`array`	items if unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified

Property	Type	Description
		paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	optional field specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.volumes[].projected.sources[].secret.items

Description

items if unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].secret.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].projected.sources[].serviceAccountToken

Description

serviceAccountToken is information about the serviceAccountToken data to project

Type

`object`

Required

`path`

Property	Type	Description
`audience`	`string`	audience is the intended audience of the token. A recipient of a token must identify itself with an identifier specified in the audience of the token, and otherwise should reject the token. The audience defaults to the identifier of the apiserver.
`expirationSeconds`	`integer`	expirationSeconds is the requested duration of validity of the service account token. As the token approaches expiration, the kubelet volume plugin will proactively rotate the service account token. The kubelet will start trying to rotate the token if the token is older than 80 percent of its time to live or if the token is older than 24 hours.Defaults to 1 hour and must be at least 10 minutes.
`path`	`string`	path is the path relative to the mount point of the file to project the token into.

.spec.workloads[].template.spec.volumes[].quobyte

Description

quobyte represents a Quobyte mount on the host that shares a pod's lifetime

Type

`object`

Required

`registry` `volume`

Property	Type	Description
`group`	`string`	group to map volume access to Default is no group
`readOnly`	`boolean`	readOnly here will force the Quobyte volume to be mounted with read-only permissions. Defaults to false.
`registry`	`string`	registry represents a single or multiple Quobyte Registry services specified as a string as host:port pair (multiple entries are separated with commas) which acts as the central registry for volumes
`tenant`	`string`	tenant owning the given Quobyte volume in the Backend Used with dynamically provisioned Quobyte volumes, value is set by the plugin
`user`	`string`	user to map volume access to Defaults to serivceaccount user
`volume`	`string`	volume is a string that references an already created Quobyte volume by name.

.spec.workloads[].template.spec.volumes[].rbd

Description

rbd represents a Rados Block Device mount on the host that shares a pod's lifetime. More info: https://examples.k8s.io/volumes/rbd/README.md

Type

`object`

Required

`image` `monitors`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type of the volume that you want to mount. Tip: Ensure that the filesystem type is supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#rbd ↗
`image`	`string`	image is the rados image name. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`keyring`	`string`	keyring is the path to key ring for RBDUser. Default is /etc/ceph/keyring. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗

Property	Type	Description
`monitors`	`array`	monitors is a collection of Ceph monitors. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`pool`	`string`	pool is the rados pool name. Default is rbd. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`readOnly`	`boolean`	readOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`secretRef`	`object`	secretRef is name of the authentication secret for RBDUser. If provided overrides keyring. Default is nil. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`user`	`string`	user is the rados user name. Default is admin. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗

.spec.workloads[].template.spec.volumes[].rbd.monitors

Description

monitors is a collection of Ceph monitors. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it

Type

`array`

.spec.workloads[].template.spec.volumes[].rbd.monitors[]

Type

`string`

.spec.workloads[].template.spec.volumes[].rbd.secretRef

Description

secretRef is name of the authentication secret for RBDUser. If provided overrides keyring. Default is nil. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].scaleIO

Description

scaleIO represents a ScaleIO persistent volume attached and mounted on Kubernetes nodes.

Type

`object`

Required

`gateway` `secretRef` `system`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Default is "xfs".
`gateway`	`string`	gateway is the host address of the ScaleIO API Gateway.
`protectionDomain`	`string`	protectionDomain is the name of the ScaleIO Protection Domain for the configured storage.
`readOnly`	`boolean`	readOnly Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretRef`	`object`	secretRef references to the secret for ScaleIO user and other sensitive information. If this is not provided, Login operation will fail.
`sslEnabled`	`boolean`	sslEnabled Flag enable/disable SSL communication with Gateway, default false

Property	Type	Description
`storageMode`	`string`	storageMode indicates whether the storage for a volume should be ThickProvisioned or ThinProvisioned. Default is ThinProvisioned.
`storagePool`	`string`	storagePool is the ScaleIO Storage Pool associated with the protection domain.
`system`	`string`	system is the name of the storage system as configured in ScaleIO.
`volumeName`	`string`	volumeName is the name of a volume already created in the ScaleIO system that is associated with this volume source.

.spec.workloads[].template.spec.volumes[].scaleIO.secretRef

Description

secretRef references to the secret for ScaleIO user and other sensitive information. If this is not provided, Login operation will fail.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty.

Property	Type	Description
		Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].secret

Description

secret represents a secret that should populate this volume. More info: https://kubernetes.io/docs/concepts/storage/volumes#secret

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	defaultMode is Optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`items`	`array`	items If unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume

Property	Type	Description
		setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`optional`	`boolean`	optional field specify whether the Secret or its keys must be defined
`secretName`	`string`	secretName is the name of the secret in the pod's namespace to use. More info: https://kubernetes.io/docs/concepts/storage/volumes#secret ↗

.spec.workloads[].template.spec.volumes[].secret.items

Description

items If unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].secret.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].storageos

Description

storageOS represents a StorageOS volume attached and mounted on Kubernetes nodes.

Type

`object`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretRef`	`object`	secretRef specifies the secret to use for obtaining the StorageOS API credentials. If not specified, default values will be attempted.
`volumeName`	`string`	volumeName is the human-readable name of the StorageOS volume. Volume names are only unique within a namespace.
`volumeNamespace`	`string`	volumeNamespace specifies the scope of the volume within StorageOS. If no namespace is specified then the Pod's namespace will be used. This allows the Kubernetes name scoping to be mirrored within StorageOS for tighter integration. Set VolumeName to any name to override the default behaviour. Set to "default" if you are not using namespaces within StorageOS. Namespaces that do not pre-exist within StorageOS will be created.

.spec.workloads[].template.spec.volumes[].storageos.secretRef

Description

secretRef specifies the secret to use for obtaining the StorageOS API credentials. If not specified, default values will be attempted.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].vsphereVolume

Description

vsphereVolume represents a vSphere volume attached and mounted on kubelets host machine

Type

`object`

Required

`volumePath`

Property	Type	Description
`fsType`	`string`	fsType is filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`storagePolicyID`	`string`	storagePolicyID is the storage Policy Based Management (SPBM) profile ID associated with the StoragePolicyName.
`storagePolicyName`	`string`	storagePolicyName is the storage Policy Based Management (SPBM) profile name.
`volumePath`	`string`	volumePath is the path that identifies vSphere volume vmdk

.status

Description

ComponentStatus defines the observed state of Connector

Type

`object`

Property	Type	Description
`annotations`	`object`	Annotations is additional Status fields for the Resource to save some additional State as well as convey more information to the user. This is

Property	Type	Description
		roughly akin to Annotations on any k8s resource, just the reconciler conveying richer information outwards.
`conditions`	`array`	Conditions the latest available observations of a resource's current state.
`observedGeneration`	`integer`	ObservedGeneration is the 'Generation' of the Service that was last processed by the controller.

.status.annotations

Description

Annotations is additional Status fields for the Resource to save some additional State as well as convey more information to the user. This is roughly akin to Annotations on any k8s resource, just the reconciler conveying richer information outwards.

Type

`object`

.status.conditions

Description

Conditions the latest available observations of a resource's current state.

Type

`array`

.status.conditions[]

Description

Condition defines a readiness condition for a Knative resource. See: https://github.com/kubernetes/community/blob/master/contributors/devel/sig-architecture/api-conventions.md#typical-status-properties

Type

`object`

Required

`status` `type`

Property	Type	Description
`lastTransitionTime`	`string`	LastTransitionTime is the last time the condition transitioned from one status to another. We use VolatileTime in place of metav1.Time to exclude this from creating equality.Semantic differences (all other things held constant).
`message`	`string`	A human readable message indicating details about the transition.
`reason`	`string`	The reason for the condition's last transition.
`severity`	`string`	Severity with which to treat failures of this type of condition. When this is not specified, it defaults to Error.
`status`	`string`	Status of the condition, one of True, False, Unknown.

Property	Type	Description
`type`	`string`	Type of condition.

API Endpoints

The following API endpoints are available:

- `/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsk8s`
  - `DELETE`: delete collection of ConnectorsK8S
  - `GET`: list objects of kind ConnectorsK8S
  - `POST`: create a new ConnectorsK8S
- `/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsk8s/{name}`
  - `DELETE`: delete the specified ConnectorsK8S
  - `GET`: read the specified ConnectorsK8S
  - `PATCH`: partially update the specified ConnectorsK8S
  - `PUT`: replace the specified ConnectorsK8S
- `/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsk8s/{name}/status`
  - `GET`: read status of the specified ConnectorsK8S
  - `PATCH`: partially update status of the specified ConnectorsK8S
  - `PUT`: replace status of the specified ConnectorsK8S

/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsk8s

HTTP method

`DELETE`

Description

delete collection of ConnectorsK8S

HTTP responses

HTTP code	Response body
200 - OK	`Status↗` schema
401 - Unauthorized	Empty

HTTP method

`GET`

Description

list objects of kind ConnectorsK8S

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsK8SList` schema
401 - Unauthorized	Empty

HTTP method

`POST`

Description

create a new ConnectorsK8S

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further

Parameter	Type	Description
		processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
`body`	`ConnectorsK8S` schema	`application/json` formatted

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsK8S` schema
201 - Created	`ConnectorsK8S` schema
202 - Accepted	`ConnectorsK8S` schema
401 - Unauthorized	Empty

/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsk8s/{name}

HTTP method

`DELETE`

Description

delete the specified ConnectorsK8S

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

HTTP responses

HTTP code	Response body
200 - OK	`Status↗` schema
202 - Accepted	`Status↗` schema
401 - Unauthorized	Empty

HTTP method

`GET`

Description

read the specified ConnectorsK8S

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsK8S` schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update the specified ConnectorsK8S

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsK8S` schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace the specified ConnectorsK8S

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

Parameter	Type	Description
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
`body`	`ConnectorsK8S` schema	`application/json` formatted

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsK8S` schema
201 - Created	`ConnectorsK8S` schema
401 - Unauthorized	Empty

/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsk8s/{name}/status

HTTP method

`GET`

Description

read status of the specified ConnectorsK8S

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsK8S` schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update status of the specified ConnectorsK8S

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields.

Parameter	Type	Description
		This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsK8S` schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace status of the specified ConnectorsK8S

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object,

Parameter	Type	Description
		and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
`body`	`ConnectorsK8S` schema	`application/json` formatted

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsK8S` schema
201 - Created	`ConnectorsK8S` schema
401 - Unauthorized	Empty

ConnectorsMaven [operator.connectors.alauda.io/v1alpha1]

Description

ConnectorsMaven is the Schema for the ConnectorsMavens API.

Type

`object`

Specification

Property	Type	Description
`apiVersion`	`string`	APIVersion defines the versioned schema of this representation of an object. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources ↗
`kind`	`string`	Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint the client submits requests to. Cannot be updated. In CamelCase. More info:

Property	Type	Description
		https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds ↗
`metadata`	`ObjectMeta` ↗	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
`spec`	`object`	ConnectorsMavenSpec defines the desired state of ConnectorsMaven.
`status`	`object`	ComponentStatus defines the observed state of Connector

.spec

Description

ConnectorsMavenSpec defines the desired state of ConnectorsMaven.

Type

`object`

Property	Type	Description
`additionalManifests`	`string`	A means to specify the additional manifests to install, eg: http://example.com/manifests.yaml ↗
`annotations`	`object`	Annotations overrides labels for the namespace and its template.

Property	Type	Description
`labels`	`object`	Labels overrides labels for the namespace and its template.
`registry`	`string`	Registry overrides the default registry for the workloads. The registry is used to replace the prefix of the image. the image reference format is /:@.
`workloads`	`array`	Workloads overrides workloads configurations such as resources and replicas.

.spec.annotations

Description

Annotations overrides labels for the namespace and its template.

Type

`object`

.spec.labels

Description

Labels overrides labels for the namespace and its template.

Type

`object`

.spec.workloads

Description

Workloads overrides workloads configurations such as resources and replicas.

Type

`array`

.spec.workloads[]

Description

WorkloadOverride overrides the workload configurations.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name is the name of the deployment to override.
`replicas`	`integer`	Number of desired pods. This is a pointer to distinguish between explicit zero and not specified. Defaults to 1.
`template`	`object`	Template describes the pods that will be created. The only allowed template.spec.restartPolicy value is "Always".

.spec.workloads[].template

Description

Template describes the pods that will be created. The only allowed template.spec.restartPolicy value is "Always".

Type

`object`

Property	Type	Description
`metadata`	`ObjectMeta` ↗	Standard object's metadata. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#metadata ↗
`spec`	`object`	Specification of the desired behavior of the pod. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#spec-and-status ↗

.spec.workloads[].template.spec

Description

Specification of the desired behavior of the pod. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#spec-and-status

Type

`object`

Required

`containers`

Property	Type	Description
`activeDeadlineSeconds`	`integer`	Optional duration in seconds the pod may StartTime before the system will actively tr containers. Value must be a positive intege

Property	Type	Description
`affinity`	`object`	If specified, the pod's scheduling constrain
`automountServiceAccountToken`	`boolean`	AutomountServiceAccountToken indicates be automatically mounted.
`containers`	`array`	List of containers belonging to the pod. Co removed. There must be at least one conta
`dnsConfig`	`object`	Specifies the DNS parameters of a pod. Pa to the generated DNS configuration based
`dnsPolicy`	`string`	Set DNS policy for the pod. Defaults to "Cl 'ClusterFirstWithHostNet', 'ClusterFirst', 'De in DNSConfig will be merged with the polic DNS options set along with hostNetwork, y to 'ClusterFirstWithHostNet'.
`enableServiceLinks`	`boolean`	EnableServiceLinks indicates whether info injected into pod's environment variables, r Optional: Defaults to true.

Property	Type	Description
`ephemeralContainers`	`array`	List of ephemeral containers run in this poc an existing pod to perform user-initiated ac cannot be specified when creating a pod, a the pod spec. In order to add an ephemera pod's ephemeralcontainers subresource.
`hostAliases`	`array`	HostAliases is an optional list of hosts and hosts file if specified.
`hostIPC`	`boolean`	Use the host's ipc namespace. Optional: D
`hostNetwork`	`boolean`	Host networking requested for this pod. Us option is set, the ports that will be used mu
`hostPID`	`boolean`	Use the host's pid namespace. Optional: D
`hostUsers`	`boolean`	Use the host's user namespace. Optional: present, the pod will be run in the host use needs a feature only available to the host u kernel module with CAP_SYS_MODULE. V created for the pod. Setting false is useful f vulnerabilities even allowing users to run th having root privileges on the host. This fiel servers that enable the UserNamespacesS

Property	Type	Description
`hostname`	`string`	Specifies the hostname of the Pod If not sp to a system-defined value.
`imagePullSecrets`	`array`	ImagePullSecrets is an optional list of refer namespace to use for pulling any of the im these secrets will be passed to individual p More info: https://kubernetes.io/docs/conce imagepullsecrets-on-a-pod ↗
`initContainers`	`array`	List of initialization containers belonging to order prior to containers being started. If a considered to have failed and is handled a for an init container or normal container mu containers may not have Lifecycle actions, Startup probes. The resourceRequirement account during scheduling by finding the hi type, and then using the max of of that valu Limits are applied to init containers in a sim currently be added or removed. Cannot be https://kubernetes.io/docs/concepts/worklo
`nodeName`	`string`	NodeName indicates in which node this po candidate for scheduling by the scheduler field is set, the kubelet for this node becom pod. This field should not be used to expre on a specific node. https://kubernetes.io/dc pod-node/#nodename ↗

Property	Type	Description
`nodeSelector`	`object`	NodeSelector is a selector which must be t which must match a node's labels for the p info: https://kubernetes.io/docs/concepts/c
`os`	`object`	Specifies the OS of the containers in the p restricted if this is set. If the OS field is set to linux, the following f securityContext.windowsOptions If the OS field is set to windows, following f • spec.hostPID • spec.hostIPC • spec.hostUsers • spec.securityContext.appArmorProfile • spec.securityContext.seLinuxOptions • spec.securityContext.seccompProfile • spec.securityContext.fsGroup • spec.securityContext.fsGroupChangeP • spec.securityContext.sysctls • spec.shareProcessNamespace • spec.securityContext.runAsUser • spec.securityContext.runAsGroup • spec.securityContext.supplementalGrou • spec.securityContext.supplementalGrou • spec.containers[*].securityContext.appA • spec.containers[*].securityContext.seLi • spec.containers[*].securityContext.secc

Property	Type	Description
		• spec.containers[*].securityContext.capa • spec.containers[*].securityContext.read • spec.containers[*].securityContext.privil • spec.containers[*].securityContext.allov • spec.containers[*].securityContext.proc • spec.containers[*].securityContext.runA • spec.containers[*].securityContext.runA
`overhead`	`object`	Overhead represents the resource overhea given RuntimeClass. This field will be auto RuntimeClass admission controller. If the F enabled, overhead must not be set in Pod admission controller will reject Pod create already set. If RuntimeClass is configured will be set to the value defined in the corre remain unset and treated as zero. More inf https://git.k8s.io/enhancements/keps/sig-n
`preemptionPolicy`	`string`	PreemptionPolicy is the Policy for preempt Never, PreemptLowerPriority. Defaults to F
`priority`	`integer`	The priority value. Various system compon the pod. When Priority Admission Controlle setting this field. The admission controller PriorityClassName. The higher the value, t
`priorityClassName`	`string`	If specified, indicates the pod's priority. "sy critical" are two special keywords which inc

Property	Type	Description
		former being the highest priority. Any other PriorityClass object with that name. If not s or zero if there is no default.
`readinessGates`	`array`	If specified, all readiness gates will be eval when all its containers are ready AND all c gates have status equal to "True" More info https://git.k8s.io/enhancements/keps/sig-n
`resourceClaims`	`array`	ResourceClaims defines which ResourceC before the Pod is allowed to start. The reso containers which consume them by name. This is an alpha field and requires enablin feature gate. This field is immutable.
`restartPolicy`	`string`	Restart policy for all containers within the p some contexts, only a subset of those valu More info: https://kubernetes.io/docs/conce lifecycle/#restart-policy ↗
`runtimeClassName`	`string`	RuntimeClassName refers to a RuntimeCla which should be used to run this pod. If no named class, the pod will not be run. If uns will be used, which is an implicit class with default runtime handler. More info: https://g node/585-runtime-class ↗

Property	Type	Description
`schedulerName`	`string`	If specified, the pod will be dispatched by s pod will be dispatched by default schedule
`schedulingGates`	`array`	SchedulingGates is an opaque list of value the pod. If schedulingGates is not empty, tl state and the scheduler will not attempt to SchedulingGates can only be set at pod cr afterwards.
`securityContext`	`object`	SecurityContext holds pod-level security at settings. Optional: Defaults to empty. See t each field.
`serviceAccount`	`string`	DeprecatedServiceAccount is a deprecate Deprecated: Use serviceAccountName ins
`serviceAccountName`	`string`	ServiceAccountName is the name of the S More info: https://kubernetes.io/docs/tasks service-account/ ↗

Property	Type	Description
`setHostnameAsFQDN`	`boolean`	If true the pod's hostname will be configure leaf name (the default). In Linux containers hostname field of the kernel (the nodenam containers, this means setting the registry HKEY_LOCAL_MACHINE\SYSTEM\Curre to FQDN. If a pod does not have FQDN, th
`shareProcessNamespace`	`boolean`	Share a single process namespace betwee this is set containers will be able to view ar containers in the same pod, and the first pr assigned PID 1. HostPID and ShareProces Optional: Default to false.
`subdomain`	`string`	If specified, the fully qualified Pod hostnam pod will not have a domainname at all.
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need decreased in delete request. Value must b indicates stop immediately via the kill signa value is nil, the default grace period will be duration in seconds after the processes ru signal and the time when the processes ar this value longer than the expected cleanu seconds.
`tolerations`	`array`	If specified, the pod's tolerations.

Property	Type	Description
`topologySpreadConstraints`	`array`	TopologySpreadConstraints describes how across topology domains. Scheduler will sc the constraints. All topologySpreadConstra
`volumes`	`array`	List of volumes that can be mounted by co info: https://kubernetes.io/docs/concepts/st

.spec.workloads[].template.spec.affinity

Description

If specified, the pod's scheduling constraints

Type

`object`

Property	Type	Description
`nodeAffinity`	`object`	Describes node affinity scheduling rules for the pod.
`podAffinity`	`object`	Describes pod affinity scheduling rules (e.g. co-locate this pod in the same node, zone, etc. as some other pod(s)).
`podAntiAffinity`	`object`	Describes pod anti-affinity scheduling rules (e.g. avoid putting this pod in the same node, zone, etc. as some other pod(s)).

.spec.workloads[].template.spec.affinity.nodeAffinity

Description

Describes node affinity scheduling rules for the pod.

Type

`object`

Property	Type	Description
`preferredDuringSchedulingIgnoredDuringExecution`	`array`	The scheduler will pr to schedule pods to nodes that satisfy the affinity expressions specified by this field, it may choose a node violates one or more the expressions. The node that is most preferred is the one w the greatest sum of weights, i.e. for each node that meets all o scheduling requireme (resource request, requiredDuringSched affinity expressions, e compute a sum by iterating through the elements of this field adding "weight" to the sum if the node matc the corresponding matchExpressions; th node(s) with the high

Property	Type	Description
		sum are the most preferred.
`requiredDuringSchedulingIgnoredDuringExecution`	`object`	If the affinity requirem specified by this field not met at scheduling time, the pod will not scheduled onto the n If the affinity requirem specified by this field cease to be met at sc point during pod execution (e.g. due tc update), the system r or may not try to eventually evict the p from its node.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node matches the corresponding matchExpressions; the node(s) with the highest sum are the most preferred.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

An empty preferred scheduling term matches all objects with implicit weight 0 (i.e. it's a no-op). A null preferred scheduling term matches no objects (i.e. is also a no-op).

Type

`object`

Required

`preference` `weight`

Property	Type	Description
`preference`	`object`	A node selector term, associated with the corresponding weight.
`weight`	`integer`	Weight associated with matching the corresponding nodeSelectorTerm, in the range 1-100.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference

Description

A node selector term, associated with the corresponding weight.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	A list of node selector requirements by node's labels.
`matchFields`	`array`	A list of node selector requirements by node's fields.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions

Description

A list of node selector requirements by node's labels.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preferenc

e.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields

Description

A list of node selector requirements by node's fields.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.

Property	Type	Description
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to an update), the system may or may not try to eventually evict the pod from its node.

Type

`object`

Required

`nodeSelectorTerms`

Property	Type	Description
`nodeSelectorTerms`	`array`	Required. A list of node selector terms. The terms are ORed.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms

Description

Required. A list of node selector terms. The terms are ORed.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelect

orTerms[]

Description

A null or empty node selector term matches no objects. The requirements of them are ANDed. The TopologySelectorTerm type implements a subset of the NodeSelectorTerm.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	A list of node selector requirements by node's labels.
`matchFields`	`array`	A list of node selector requirements by node's fields.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions

Description

A list of node selector requirements by node's labels.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields

Description

A list of node selector requirements by node's fields.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelect

orTerms[].matchFields[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity

Description

Describes pod affinity scheduling rules (e.g. co-locate this pod in the same node, zone, etc. as some other pod(s)).

Type

`object`

Property	Type	Description
`preferredDuringSchedulingIgnoredDuringExecution`	`array`	The scheduler will pr to schedule pods to nodes that satisfy the affinity expressions specified by this field, it may choose a node violates one or more the expressions. The node that is most preferred is the one v the greatest sum of weights, i.e. for each node that meets all o scheduling requireme (resource request, requiredDuringSched affinity expressions, e compute a sum by iterating through the elements of this field

Property	Type	Description
		adding "weight" to the sum if the node has p which matches the corresponding podAffinityTerm; the node(s) with the high sum are the most preferred.
`requiredDuringSchedulingIgnoredDuringExecution`	`array`	If the affinity requirem specified by this field not met at scheduling time, the pod will not scheduled onto the n If the affinity requirem specified by this field cease to be met at so point during pod execution (e.g. due to pod label update), the system may or may n try to eventually evict pod from its node. Wh there are multiple elements, the lists of nodes corresponding each podAffinityTerm intersected, i.e. all ter must be satisfied.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node has pods which matches the corresponding podAffinityTerm; the node(s) with the highest sum are the most preferred.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

The weights of all of the matched WeightedPodAffinityTerm fields are added per-node to find the most preferred node(s)

Type

`object`

Required

`podAffinityTerm` `weight`

Property	Type	Description
`podAffinityTerm`	`object`	Required. A pod affinity term, associated with the corresponding weight.

Property	Type	Description
`weight`	`integer`	weight associated with matching the corresponding podAffinityTerm, in the range 1-100.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm

Description

Required. A pod affinity term, associated with the corresponding weight.

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod

Property	Type	Description
		labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Property	Type	Description
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinit

yTerm.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinit

yTerm.namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to a pod label update), the system may or may not try to eventually evict the pod from its node. When there are multiple elements, the lists of nodes corresponding to each podAffinityTerm are intersected, i.e. all terms must be satisfied.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[]

Description

Defines a set of pods (namely those matching the labelSelector relative to the given namespace(s)) that this pod should be co-located (affinity) or not co-located (anti-affinity) with, where co-located is defined as running on a node whose value of the label with key <topologyKey> matches that of any node on which a pod of the set of pods is running

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Property	Type	Description
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Property	Type	Description
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.

Property	Type	Description
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchL

abelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespac

eSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity

Description

Describes pod anti-affinity scheduling rules (e.g. avoid putting this pod in the same node, zone, etc. as some other pod(s)).

Type

`object`

Property	Type	Description
`preferredDuringSchedulingIgnoredDuringExecution`	`array`	The scheduler will pr to schedule pods to nodes that satisfy the anti-affinity expressio specified by this field, it may choose a node violates one or more the expressions. The node that is most preferred is the one w the greatest sum of weights, i.e. for each node that meets all o scheduling requireme (resource request, requiredDuringSched anti-affinity expressio etc.), compute a sum iterating through the elements of this field adding "weight" to the sum if the node has p

Property	Type	Description
		which matches the corresponding podAffinityTerm; the node(s) with the high sum are the most preferred.
`requiredDuringSchedulingIgnoredDuringExecution`	`array`	If the anti-affinity requirements specifie this field are not met scheduling time, the p will not be scheduled the node. If the anti-affinity requirements specified by this field cease to be met at sc point during pod execution (e.g. due to pod label update), the system may or may n try to eventually evict pod from its node. Wh there are multiple elements, the lists of nodes corresponding each podAffinityTerm intersected, i.e. all ter must be satisfied.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the anti-affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling anti-affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node has pods which matches the corresponding podAffinityTerm; the node(s) with the highest sum are the most preferred.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

The weights of all of the matched WeightedPodAffinityTerm fields are added per-node to find the most preferred node(s)

Type

`object`

Required

`podAffinityTerm` `weight`

Property	Type	Description
`podAffinityTerm`	`object`	Required. A pod affinity term, associated with the corresponding weight.
`weight`	`integer`	weight associated with matching the corresponding podAffinityTerm, in the range 1-100.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm

Description

Required. A pod affinity term, associated with the corresponding weight.

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Property	Type	Description
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Property	Type	Description
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAf

finityTerm.namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAf

finityTerm.namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the anti-affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the anti-affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to a pod label update), the system may or may not try to eventually evict the pod from its node. When there are multiple elements, the lists of nodes corresponding to each podAffinityTerm are intersected, i.e. all terms must be satisfied.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[]

Description

Defines a set of pods (namely those matching the labelSelector relative to the given namespace(s)) that this pod should be co-located (affinity) or not co-located (anti-affinity) with, where co-located is defined as running on a node whose value of the label with key <topologyKey> matches that of any node on which a pod of the set of pods is running

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Property	Type	Description
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Property	Type	Description
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.

Property	Type	Description
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismat

chLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].names

paceSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces[]

Type

`string`

.spec.workloads[].template.spec.containers

Description

List of containers belonging to the pod. Containers cannot currently be added or removed. There must be at least one container in a Pod. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[]

Description

A single application container that you want to run within a pod.

Type

`object`

Required

`name`

Property	Type	Description
`args`	`array`	Arguments to the entrypoint. The container imag if this is not provided. Variable references $(VAR expanded using the container's environment. If a be resolved, the reference in the input string will Double $$ are reduced to a single $, which allow the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" string literal "$(VAR_NAME)". Escaped reference expanded, regardless of whether the variable ex Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`command`	`array`	Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provi references $(VAR_NAME) are expanded using tl environment. If a variable cannot be resolved, th the input string will be unchanged. Double $$ are single $, which allows for escaping the $(VAR_N i.e. "$$(VAR_NAME)" will produce the string liter "$(VAR_NAME)". Escaped references will never regardless of whether the variable exists or not. updated. More info: https://kubernetes.io/docs/ta application/define-command-argument-container command-in-a-shell ↗
`env`	`array`	List of environment variables to set in the contair updated.
`envFrom`	`array`	List of sources to populate environment variables container. The keys defined within a source mus

Property	Type	Description
		C_IDENTIFIER. All invalid keys will be reported a when the container is starting. When a key exists sources, the value associated with the last sourc precedence. Values defined by an Env with a du take precedence. Cannot be updated.
`image`	`string`	Container image name. More info: https://kubernetes.io/docs/concepts/containers/ir field is optional to allow higher level config mana default or override container images in workload Deployments and StatefulSets.
`imagePullPolicy`	`string`	Image pull policy. One of Always, Never, IfNotPre to Always if :latest tag is specified, or IfNotPrese Cannot be updated. More info: https://kubernetes.io/docs/concepts/containers/ir images ↗
`lifecycle`	`object`	Actions that the management system should tak container lifecycle events. Cannot be updated.
`livenessProbe`	`object`	Periodic probe of container liveness. Container w the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`name`	`string`	Name of the container specified as a DNS_LABE container in a pod must have a unique name (DN

Property	Type	Description
		Cannot be updated.
`ports`	`array`	List of ports to expose from the container. Not sp here DOES NOT prevent that port from being ex which is listening on the default "0.0.0.0" address container will be accessible from the network. Mo array with strategic merge patch may corrupt the information See https://github.com/kubernetes/kubernetes/issues Cannot be updated.
`readinessProbe`	`object`	Periodic probe of container service readiness. Co removed from service endpoints if the probe fails updated. More info: https://kubernetes.io/docs/concepts/workloads/po lifecycle#container-probes ↗
`resizePolicy`	`array`	Resources resize policy for the container.
`resources`	`object`	Compute Resources required by this container. C updated. More info: https://kubernetes.io/docs/concepts/configuration resources-containers/ ↗
`restartPolicy`	`string`	RestartPolicy defines the restart behavior of indiv in a pod. This field may only be set for init contai only allowed value is "Always". For non-init conta this field is not specified, the restart behavior is d

Property	Type	Description
		Pod's restart policy and the container type. Settir RestartPolicy as "Always" for the init container w following effect: this init container will be continua exit until all regular containers have terminated. (containers have completed, all init containers wit "Always" will be shut down. This lifecycle differs f containers and is often referred to as a "sidecar" Although this init container still starts in the init cc sequence, it does not wait for the container to co proceeding to the next init container. Instead, the container starts immediately after this init contair after any startupProbe has successfully complete
`securityContext`	`object`	SecurityContext defines the security options the be run with. If set, the fields of SecurityContext o equivalent fields of PodSecurityContext. More inf https://kubernetes.io/docs/tasks/configure-pod-container/security-context/ ↗
`startupProbe`	`object`	StartupProbe indicates that the Pod has success If specified, no other probes are executed until th successfully. If this probe fails, the Pod will be re the livenessProbe failed. This can be used to prc probe parameters at the beginning of a Pod's life might take a long time to load data or warm a ca steady-state operation. This cannot be updated. https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`stdin`	`boolean`	Whether this container should allocate a buffer fc container runtime. If this is not set, reads from st

Property	Type	Description
		container will always result in EOF. Default is fals
`stdinOnce`	`boolean`	Whether the container runtime should close the s after it has been opened by a single attach. Whe the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is oper start, is empty until the first client attaches to stdi remains open and accepts data until the client di which time stdin is closed and remains closed ur is restarted. If this flag is false, a container proce from stdin will never receive an EOF. Default is fa
`terminationMessagePath`	`string`	Optional: Path at which the file to which the conta termination message will be written is mounted i container's filesystem. Message written is intend final status, such as an assertion failure messag truncated by the node if greater than 4096 bytes. message length across all containers will be limit Defaults to /dev/termination-log. Cannot be upda
`terminationMessagePolicy`	`string`	Indicate how the termination message should be will use the contents of terminationMessagePath container status message on both success and f FallbackToLogsOnError will use the last chunk o output if the termination message file is empty ar exited with an error. The log output is limited to 2 lines, whichever is smaller. Defaults to File. Cann

Property	Type	Description
`tty`	`boolean`	Whether this container should allocate a TTY for requires 'stdin' to be true. Default is false.
`volumeDevices`	`array`	volumeDevices is the list of block devices to be u container.
`volumeMounts`	`array`	Pod volumes to mount into the container's filesys updated.
`workingDir`	`string`	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

.spec.workloads[].template.spec.containers[].args

Description

Arguments to the entrypoint. The container image's CMD is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.containers[].args[]

Type

`string`

.spec.workloads[].template.spec.containers[].command

Description

Entrypoint array. Not executed within a shell. The container image's ENTRYPOINT is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.containers[].command[]

Type

`string`

.spec.workloads[].template.spec.containers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the environment variable. Must be a C_IDENTIFIER.
`value`	`string`	Variable references $(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
`valueFrom`	`object`	Source for the environment variable's value. Cannot be used if value is not empty.

.spec.workloads[].template.spec.containers[].env[].valueFrom

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
`configMapKeyRef`	`object`	Selects a key of a ConfigMap.
`fieldRef`	`object`	Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
`secretKeyRef`	`object`	Selects a key of a secret in the pod's namespace

.spec.workloads[].template.spec.containers[].env[].valueFrom.configMapKeyRef

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key to select.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap or its key must be defined

.spec.workloads[].template.spec.containers[].env[].valueFrom.fieldRef

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.containers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"

Property	Type	Description
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.containers[].env[].valueFrom.secretKeyRef

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key of the secret to select from. Must be a valid secret key.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.containers[].envFrom

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].envFrom[]

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
`configMapRef`	`object`	The ConfigMap to select from
`prefix`	`string`	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
`secretRef`	`object`	The Secret to select from

.spec.workloads[].template.spec.containers[].envFrom[].configMapRef

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap must be defined

.spec.workloads[].template.spec.containers[].envFrom[].secretRef

Description

The Secret to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret must be defined

.spec.workloads[].template.spec.containers[].lifecycle

Description

Actions that the management system should take in response to container lifecycle events. Cannot be updated.

Type

`object`

Property	Type	Description
`postStart`	`object`	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
`preStop`	`object`	PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the

Property	Type	Description
		container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

.spec.workloads[].template.spec.containers[].lifecycle.postStart

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.

Property	Type	Description
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.postStart.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.

Property	Type	Description
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].lifecycle.postStart.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].lifecycle.preStop

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to

Property	Type	Description
		explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.preStop.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.preStop.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].livenessProbe

Description

Periodic probe of container liveness. Container will be restarted if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I

Property	Type	Description
		Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.containers[].livenessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].livenessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.containers[].livenessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].livenessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].livenessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].ports

Description

List of ports to expose from the container. Not specifying a port here DOES NOT prevent that port from being exposed. Any port which is listening on the default "0.0.0.0" address inside a container will be accessible from the network. Modifying this array with strategic merge patch may corrupt the data. For more information See https://github.com/kubernetes/kubernetes/issues/108255. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].ports[]

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
`containerPort`	`integer`	Number of port to expose on the pod's IP address. This must be a valid port number, 0 < x < 65536.
`hostIP`	`string`	What host IP to bind the external port to.
`hostPort`	`integer`	Number of port to expose on the host. If specified, this must be a valid port number, 0 < x < 65536. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
`name`	`string`	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
`protocol`	`string`	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

.spec.workloads[].template.spec.containers[].readinessProbe

Description

Periodic probe of container service readiness. Container will be removed from service endpoints if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu

Property	Type	Description
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.containers[].readinessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].readinessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].readinessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].readinessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.containers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].readinessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].readinessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].readinessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].resizePolicy

Description

Resources resize policy for the container.

Type

`array`

.spec.workloads[].template.spec.containers[].resizePolicy[]

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName` `restartPolicy`

Property	Type	Description
`resourceName`	`string`	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.
`restartPolicy`	`string`	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

.spec.workloads[].template.spec.containers[].resources

Description

Compute Resources required by this container. Cannot be updated. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

Property	Type	Description
`claims`	`array`	Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.containers[].resources.claims

Description

Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.

Type

`array`

.spec.workloads[].template.spec.containers[].resources.claims[]

Description

ResourceClaim references one entry in PodSpec.ResourceClaims.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.
`request`	`string`	Request is the name chosen for a request in the referenced claim. If empty, everything from the claim is made available, otherwise only the result of this request.

.spec.workloads[].template.spec.containers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.containers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.containers[].securityContext

Description

SecurityContext defines the security options the container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext. More info: https://kubernetes.io/docs/tasks/configure-pod-container/security-context/

Type

`object`

Property	Type	Description
`allowPrivilegeEscalation`	`boolean`	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no_new_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1. run as Privileged 2. has CAP_SYS_ADMIN Note that this field cannot be set when spec.os.name is windows.
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.
`capabilities`	`object`	The capabilities to add/drop when running containers. Defaults to the default set of

Property	Type	Description
		capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.
`privileged`	`boolean`	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when spec.os.name is windows.
`procMount`	`string`	procMount denotes the type of proc mount to use for the containers. The default value is Default which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows.
`readOnlyRootFilesystem`	`boolean`	Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.containers[].securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.containers[].securityContext.capabilities

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`add`	`array`	Added capabilities

Property	Type	Description
`drop`	`array`	Removed capabilities

.spec.workloads[].template.spec.containers[].securityContext.capabilities.add

Description

Added capabilities

Type

`array`

.spec.workloads[].template.spec.containers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.containers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.workloads[].template.spec.containers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.containers[].securityContext.seLinuxOptions

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.

Property	Type	Description
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.containers[].securityContext.seccompProfile

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container

Property	Type	Description
		runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.containers[].securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same

Property	Type	Description
		effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.containers[].startupProbe

Description

StartupProbe indicates that the Pod has successfully initialized. If specified, no other probes are executed until this completes successfully. If this probe fails, the Pod will be restarted, just as if the livenessProbe failed. This can be used to provide different probe parameters at the beginning of a Pod's lifecycle, when it might take a long time to load data or warm a cache, than during steady-state operation. This cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.containers[].startupProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].startupProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].startupProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].startupProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.containers[].startupProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].startupProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].volumeDevices

Description

volumeDevices is the list of block devices to be used by the container.

Type

`array`

.spec.workloads[].template.spec.containers[].volumeDevices[]

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath` `name`

Property	Type	Description
`devicePath`	`string`	devicePath is the path inside of the container that the device will be mapped to.

Property	Type	Description
`name`	`string`	name must match the name of a persistentVolumeClaim in the pod

.spec.workloads[].template.spec.containers[].volumeMounts

Description

Pod volumes to mount into the container's filesystem. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].volumeMounts[]

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath` `name`

Property	Type	Description
`mountPath`	`string`	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
`mountPropagation`	`string`	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. When RecursiveReadOnly is set to IfPossible or to Enabled, MountPropagation must be None or unspecified (which defaults to None).
`name`	`string`	This must match the Name of a Volume.
`readOnly`	`boolean`	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
`recursiveReadOnly`	`string`	RecursiveReadOnly specifies whether read-only mounts should be handled recursively. If ReadOnly is false, this field has no meaning and must be unspecified. If ReadOnly is true, and this field is set to Disabled, the mount is not made recursively read-only. If this field is set to IfPossible, the mount is made recursively read-only, if it is supported by the container runtime. If this field is set to Enabled, the mount is made recursively read-only if it is supported by the container runtime, otherwise the pod will not be started and an error will be generated to indicate the reason. If this field is set to IfPossible or Enabled, MountPropagation must be set to None (or be

Property	Type	Description
		unspecified, which defaults to None). If this field is not specified, it is treated as an equivalent of Disabled.
`subPath`	`string`	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
`subPathExpr`	`string`	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references $(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

.spec.workloads[].template.spec.dnsConfig

Description

Specifies the DNS parameters of a pod. Parameters specified here will be merged to the generated DNS configuration based on DNSPolicy.

Type

`object`

Property	Type	Description
`nameservers`	`array`	A list of DNS name server IP addresses. This will be appended to the base nameservers generated from DNSPolicy. Duplicated nameservers will be removed.
`options`	`array`	A list of DNS resolver options. This will be merged with the base options generated from DNSPolicy. Duplicated entries will be removed. Resolution options given in Options will override those that appear in the base DNSPolicy.
`searches`	`array`	A list of DNS search domains for host-name lookup. This will be appended to the base search paths generated from DNSPolicy. Duplicated search paths will be removed.

.spec.workloads[].template.spec.dnsConfig.nameservers

Description

A list of DNS name server IP addresses. This will be appended to the base nameservers generated from DNSPolicy. Duplicated nameservers will be removed.

Type

`array`

.spec.workloads[].template.spec.dnsConfig.nameservers[]

Type

`string`

.spec.workloads[].template.spec.dnsConfig.options

Description

A list of DNS resolver options. This will be merged with the base options generated from DNSPolicy. Duplicated entries will be removed. Resolution options given in Options will override those that appear in the base DNSPolicy.

Type

`array`

.spec.workloads[].template.spec.dnsConfig.options[]

Description

PodDNSConfigOption defines DNS resolver options of a pod.

Type

`object`

Property	Type	Description
`name`	`string`	Required.
`value`	`string`	

.spec.workloads[].template.spec.dnsConfig.searches

Description

A list of DNS search domains for host-name lookup. This will be appended to the base search paths generated from DNSPolicy. Duplicated search paths will be removed.

Type

`array`

.spec.workloads[].template.spec.dnsConfig.searches[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers

Description

List of ephemeral containers run in this pod. Ephemeral containers may be run in an existing pod to perform user-initiated actions such as debugging. This list cannot be specified when creating a pod, and it cannot be modified by updating the pod spec. In order to add an ephemeral container to an existing pod, use the pod's ephemeralcontainers subresource.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[]

Description

An EphemeralContainer is a temporary container that you may add to an existing Pod for user-initiated activities such as debugging. Ephemeral containers have no resource or scheduling guarantees, and they will not be restarted when they exit or when a Pod is removed or restarted. The kubelet may evict a Pod if an ephemeral container causes the Pod to exceed its resource allocation. To add an ephemeral container, use the ephemeralcontainers subresource of an existing Pod. Ephemeral containers may not be removed or restarted.

Type

`object`

Required

`name`

Property	Type	Description
`args`	`array`	Arguments to the entrypoint. The image's CMD is not provided. Variable references $(VAR_NAME) using the container's environment. If a variable c

Property	Type	Description
		resolved, the reference in the input string will be Double $$ are reduced to a single $, which allow the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" string literal "$(VAR_NAME)". Escaped reference expanded, regardless of whether the variable ex Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`command`	`array`	Entrypoint array. Not executed within a shell. The ENTRYPOINT is used if this is not provided. Vari $(VAR_NAME) are expanded using the containe If a variable cannot be resolved, the reference in will be unchanged. Double $$ are reduced to a s allows for escaping the $(VAR_NAME) syntax: i. "$$(VAR_NAME)" will produce the string literal "$ Escaped references will never be expanded, reg whether the variable exists or not. Cannot be upd https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`env`	`array`	List of environment variables to set in the contair updated.

Property	Type	Description
`envFrom`	`array`	List of sources to populate environment variables container. The keys defined within a source must C_IDENTIFIER. All invalid keys will be reported a when the container is starting. When a key exists sources, the value associated with the last sourc precedence. Values defined by an Env with a du take precedence. Cannot be updated.
`image`	`string`	Container image name. More info: https://kubernetes.io/docs/concepts/containers/ir
`imagePullPolicy`	`string`	Image pull policy. One of Always, Never, IfNotPre to Always if :latest tag is specified, or IfNotPrese Cannot be updated. More info: https://kubernetes.io/docs/concepts/containers/ir images ↗
`lifecycle`	`object`	Lifecycle is not allowed for ephemeral containers
`livenessProbe`	`object`	Probes are not allowed for ephemeral containers
`name`	`string`	Name of the ephemeral container specified as a This name must be unique among all containers, and ephemeral containers.

Property	Type	Description
`ports`	`array`	Ports are not allowed for ephemeral containers.
`readinessProbe`	`object`	Probes are not allowed for ephemeral containers
`resizePolicy`	`array`	Resources resize policy for the container.
`resources`	`object`	Resources are not allowed for ephemeral contai containers use spare resources already allocate
`restartPolicy`	`string`	Restart policy for the container to manage the re each container within a pod. This may only be se containers. You cannot set this field on ephemer
`securityContext`	`object`	Optional: SecurityContext defines the security op ephemeral container should be run with. If set, th SecurityContext override the equivalent fields of PodSecurityContext.
`startupProbe`	`object`	Probes are not allowed for ephemeral containers
`stdin`	`boolean`	Whether this container should allocate a buffer fo container runtime. If this is not set, reads from st container will always result in EOF. Default is fals

Property	Type	Description
`stdinOnce`	`boolean`	Whether the container runtime should close the s after it has been opened by a single attach. Whe the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is oper start, is empty until the first client attaches to stdi remains open and accepts data until the client di which time stdin is closed and remains closed ur is restarted. If this flag is false, a container proce from stdin will never receive an EOF. Default is fa
`targetContainerName`	`string`	If set, the name of the container from PodSpec th ephemeral container targets. The ephemeral cor run in the namespaces (IPC, PID, etc) of this cor then the ephemeral container uses the namespa in the Pod spec. The container runtime must implement support fo the runtime does not support namespace targeti result of setting this field is undefined.
`terminationMessagePath`	`string`	Optional: Path at which the file to which the conta termination message will be written is mounted in container's filesystem. Message written is intend final status, such as an assertion failure messag truncated by the node if greater than 4096 bytes. message length across all containers will be limit Defaults to /dev/termination-log. Cannot be upda
`terminationMessagePolicy`	`string`	Indicate how the termination message should be will use the contents of terminationMessagePath

Property	Type	Description
		container status message on both success and f FallbackToLogsOnError will use the last chunk o output if the termination message file is empty ar exited with an error. The log output is limited to 2 lines, whichever is smaller. Defaults to File. Canr
`tty`	`boolean`	Whether this container should allocate a TTY for requires 'stdin' to be true. Default is false.
`volumeDevices`	`array`	volumeDevices is the list of block devices to be u container.
`volumeMounts`	`array`	Pod volumes to mount into the container's filesys mounts are not allowed for ephemeral containers updated.
`workingDir`	`string`	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

.spec.workloads[].template.spec.ephemeralContainers[].args

Description

Arguments to the entrypoint. The image's CMD is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e.

"$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].args[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].command

Description

Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the environment variable. Must be a C_IDENTIFIER.
`value`	`string`	Variable references $(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME)

Property	Type	Description
		syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
`valueFrom`	`object`	Source for the environment variable's value. Cannot be used if value is not empty.

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
`configMapKeyRef`	`object`	Selects a key of a ConfigMap.
`fieldRef`	`object`	Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Property	Type	Description
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
`secretKeyRef`	`object`	Selects a key of a secret in the pod's namespace

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.configMapKeyRef

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key to select.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap or its key must be defined

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.fieldRef

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.secretKeyRef

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key of the secret to select from. Must be a valid secret key.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.ephemeralContainers[].envFrom

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].envFrom[]

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
`configMapRef`	`object`	The ConfigMap to select from
`prefix`	`string`	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
`secretRef`	`object`	The Secret to select from

.spec.workloads[].template.spec.ephemeralContainers[].envFrom[].configMapRef

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap must be defined

.spec.workloads[].template.spec.ephemeralContainers[].envFrom[].secretRef

Description

The Secret to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret must be defined

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle

Description

Lifecycle is not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`postStart`	`object`	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
`preStop`	`object`	PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be

Property	Type	Description
		an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility.

Property	Type	Description
		There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.

Property	Type	Description
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when

tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.

Property	Type	Description
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru

Property	Type	Description
		pod are sent a termination signal and the ti processes are forcibly halted with a kill sigı value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceF gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root

Property	Type	Description
		('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].ports

Description

Ports are not allowed for ephemeral containers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].ports[]

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
`containerPort`	`integer`	Number of port to expose on the pod's IP address. This must be a valid port number, 0 < x < 65536.

Property	Type	Description
`hostIP`	`string`	What host IP to bind the external port to.
`hostPort`	`integer`	Number of port to expose on the host. If specified, this must be a valid port number, 0 < x < 65536. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
`name`	`string`	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
`protocol`	`string`	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].resizePolicy

Description

Resources resize policy for the container.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].resizePolicy[]

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName` `restartPolicy`

Property	Type	Description
`resourceName`	`string`	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.

Property	Type	Description
`restartPolicy`	`string`	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

.spec.workloads[].template.spec.ephemeralContainers[].resources

Description

Resources are not allowed for ephemeral containers. Ephemeral containers use spare resources already allocated to the pod.

Type

`object`

Property	Type	Description
`claims`	`array`	Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.ephemeralContainers[].resources.claims

Description

Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].resources.claims[]

Description

ResourceClaim references one entry in PodSpec.ResourceClaims.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.
`request`	`string`	Request is the name chosen for a request in the referenced claim. If empty, everything from the claim is made available, otherwise only the result of this request.

.spec.workloads[].template.spec.ephemeralContainers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.ephemeralContainers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext

Description

Optional: SecurityContext defines the security options the ephemeral container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext.

Type

`object`

Property	Type	Description
`allowPrivilegeEscalation`	`boolean`	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no_new_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1. run as Privileged 2. has CAP_SYS_ADMIN Note that this field cannot be set when spec.os.name is windows.
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.
`capabilities`	`object`	The capabilities to add/drop when running containers. Defaults to the default set of

Property	Type	Description
		capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.
`privileged`	`boolean`	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when spec.os.name is windows.
`procMount`	`string`	procMount denotes the type of proc mount to use for the containers. The default value is Default which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows.
`readOnlyRootFilesystem`	`boolean`	Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`add`	`array`	Added capabilities

Property	Type	Description
`drop`	`array`	Removed capabilities

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.add

Description

Added capabilities

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.seLinuxOptions

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.

Property	Type	Description
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.seccompProfile

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container

Property	Type	Description
		runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa ↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same

Property	Type	Description
		effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded.

Property	Type	Description
		Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the ti processes are forcibly halted with a kill sig value longer than the expected cleanup tim

Property	Type	Description
		process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceF gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to

Property	Type	Description
		explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.

Property	Type	Description
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].volumeDevices

Description

volumeDevices is the list of block devices to be used by the container.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].volumeDevices[]

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath` `name`

Property	Type	Description
`devicePath`	`string`	devicePath is the path inside of the container that the device will be mapped to.

Property	Type	Description
`name`	`string`	name must match the name of a persistentVolumeClaim in the pod

.spec.workloads[].template.spec.ephemeralContainers[].volumeMounts

Description

Pod volumes to mount into the container's filesystem. Subpath mounts are not allowed for ephemeral containers. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].volumeMounts[]

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath` `name`

Property	Type	Description
`mountPath`	`string`	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
`mountPropagation`	`string`	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. When RecursiveReadOnly is set to IfPossible or to Enabled, MountPropagation must be None or unspecified (which defaults to None).
`name`	`string`	This must match the Name of a Volume.
`readOnly`	`boolean`	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
`recursiveReadOnly`	`string`	RecursiveReadOnly specifies whether read-only mounts should be handled recursively. If ReadOnly is false, this field has no meaning and must be unspecified. If ReadOnly is true, and this field is set to Disabled, the mount is not made recursively read-only. If this field is set to IfPossible, the mount is made recursively read-only, if it is supported by the container runtime. If this field is set to Enabled, the mount is made recursively read-only if it is supported by the container runtime, otherwise the pod will not be started and an error will be generated to indicate the reason. If this field is set to IfPossible or Enabled, MountPropagation must be set to None (or be

Property	Type	Description
		unspecified, which defaults to None). If this field is not specified, it is treated as an equivalent of Disabled.
`subPath`	`string`	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
`subPathExpr`	`string`	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references $(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

.spec.workloads[].template.spec.hostAliases

Description

HostAliases is an optional list of hosts and IPs that will be injected into the pod's hosts file if specified.

Type

`array`

.spec.workloads[].template.spec.hostAliases[]

Description

HostAlias holds the mapping between IP and hostnames that will be injected as an entry in the pod's hosts file.

Type

`object`

Required

`ip`

Property	Type	Description
`hostnames`	`array`	Hostnames for the above IP address.
`ip`	`string`	IP address of the host file entry.

.spec.workloads[].template.spec.hostAliases[].hostnames

Description

Hostnames for the above IP address.

Type

`array`

.spec.workloads[].template.spec.hostAliases[].hostnames[]

Type

`string`

.spec.workloads[].template.spec.imagePullSecrets

Description

ImagePullSecrets is an optional list of references to secrets in the same namespace to use for pulling any of the images used by this PodSpec. If specified, these secrets will be passed to individual puller implementations for them to use. More info:

https://kubernetes.io/docs/concepts/containers/images#specifying-imagepullsecrets-on-a-pod

Type

`array`

.spec.workloads[].template.spec.imagePullSecrets[]

Description

LocalObjectReference contains enough information to let you locate the referenced object inside the same namespace.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.initContainers

Description

List of initialization containers belonging to the pod. Init containers are executed in order prior to containers being started. If any init container fails, the pod is considered to have failed and is handled according to its restartPolicy. The name for an init container or normal container must be unique among all containers. Init containers may not have Lifecycle actions, Readiness probes, Liveness probes, or Startup probes. The resourceRequirements of an init container are taken into account during scheduling by finding the highest request/limit for each resource type, and then using the max of of that value or the sum of the normal containers. Limits are applied to init containers in a similar fashion. Init

containers cannot currently be added or removed. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/init-containers/

Type

`array`

.spec.workloads[].template.spec.initContainers[]

Description

A single application container that you want to run within a pod.

Type

`object`

Required

`name`

Property	Type	Description
`args`	`array`	Arguments to the entrypoint. The container imag if this is not provided. Variable references $(VAR expanded using the container's environment. If a be resolved, the reference in the input string will Double $$ are reduced to a single $, which allow the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" string literal "$(VAR_NAME)". Escaped reference expanded, regardless of whether the variable ex Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`command`	`array`	Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provi references $(VAR_NAME) are expanded using tl environment. If a variable cannot be resolved, th

Property	Type	Description
		the input string will be unchanged. Double $$ are single $, which allows for escaping the $(VAR_N i.e. "$$(VAR_NAME)" will produce the string liter "$(VAR_NAME)". Escaped references will never regardless of whether the variable exists or not. updated. More info: https://kubernetes.io/docs/ta application/define-command-argument-container command-in-a-shell ↗
`env`	`array`	List of environment variables to set in the contair updated.
`envFrom`	`array`	List of sources to populate environment variables container. The keys defined within a source mus C_IDENTIFIER. All invalid keys will be reported a when the container is starting. When a key exists sources, the value associated with the last sourc precedence. Values defined by an Env with a du take precedence. Cannot be updated.
`image`	`string`	Container image name. More info: https://kubernetes.io/docs/concepts/containers/ir field is optional to allow higher level config mana default or override container images in workload Deployments and StatefulSets.
`imagePullPolicy`	`string`	Image pull policy. One of Always, Never, IfNotPre to Always if :latest tag is specified, or IfNotPrese Cannot be updated. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/containers/ir images ↗
`lifecycle`	`object`	Actions that the management system should tak container lifecycle events. Cannot be updated.
`livenessProbe`	`object`	Periodic probe of container liveness. Container w the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`name`	`string`	Name of the container specified as a DNS_LABE container in a pod must have a unique name (DN Cannot be updated.
`ports`	`array`	List of ports to expose from the container. Not sp here DOES NOT prevent that port from being ex which is listening on the default "0.0.0.0" address container will be accessible from the network. M array with strategic merge patch may corrupt the information See https://github.com/kubernetes/kubernetes/issues Cannot be updated.
`readinessProbe`	`object`	Periodic probe of container service readiness. C removed from service endpoints if the probe fails updated. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`resizePolicy`	`array`	Resources resize policy for the container.
`resources`	`object`	Compute Resources required by this container. C updated. More info: https://kubernetes.io/docs/concepts/configuratior resources-containers/ ↗
`restartPolicy`	`string`	RestartPolicy defines the restart behavior of indiv in a pod. This field may only be set for init contai only allowed value is "Always". For non-init conta this field is not specified, the restart behavior is d Pod's restart policy and the container type. Settir RestartPolicy as "Always" for the init container w following effect: this init container will be continua exit until all regular containers have terminated. C containers have completed, all init containers wit "Always" will be shut down. This lifecycle differs f containers and is often referred to as a "sidecar" Although this init container still starts in the init co sequence, it does not wait for the container to co proceeding to the next init container. Instead, the container starts immediately after this init contair after any startupProbe has successfully complete
`securityContext`	`object`	SecurityContext defines the security options the be run with. If set, the fields of SecurityContext o equivalent fields of PodSecurityContext. More inf

Property	Type	Description
		https://kubernetes.io/docs/tasks/configure-pod-container/security-context/ ↗
`startupProbe`	`object`	StartupProbe indicates that the Pod has success If specified, no other probes are executed until th successfully. If this probe fails, the Pod will be re the livenessProbe failed. This can be used to pro probe parameters at the beginning of a Pod's life might take a long time to load data or warm a ca steady-state operation. This cannot be updated. https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`stdin`	`boolean`	Whether this container should allocate a buffer fo container runtime. If this is not set, reads from st container will always result in EOF. Default is fals
`stdinOnce`	`boolean`	Whether the container runtime should close the s after it has been opened by a single attach. Whe the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is oper start, is empty until the first client attaches to stdi remains open and accepts data until the client di which time stdin is closed and remains closed ur is restarted. If this flag is false, a container proce from stdin will never receive an EOF. Default is fa
`terminationMessagePath`	`string`	Optional: Path at which the file to which the conta termination message will be written is mounted i container's filesystem. Message written is intend

Property	Type	Description
		final status, such as an assertion failure messag truncated by the node if greater than 4096 bytes. message length across all containers will be limit Defaults to /dev/termination-log. Cannot be upda
`terminationMessagePolicy`	`string`	Indicate how the termination message should be will use the contents of terminationMessagePath container status message on both success and f FallbackToLogsOnError will use the last chunk o output if the termination message file is empty ar exited with an error. The log output is limited to 2 lines, whichever is smaller. Defaults to File. Cann
`tty`	`boolean`	Whether this container should allocate a TTY for requires 'stdin' to be true. Default is false.
`volumeDevices`	`array`	volumeDevices is the list of block devices to be u container.
`volumeMounts`	`array`	Pod volumes to mount into the container's filesys updated.
`workingDir`	`string`	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

.spec.workloads[].template.spec.initContainers[].args

Description

Arguments to the entrypoint. The container image's CMD is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.initContainers[].args[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].command

Description

Entrypoint array. Not executed within a shell. The container image's ENTRYPOINT is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.initContainers[].command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the environment variable. Must be a C_IDENTIFIER.
`value`	`string`	Variable references $(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input

Property	Type	Description
		string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
`valueFrom`	`object`	Source for the environment variable's value. Cannot be used if value is not empty.

.spec.workloads[].template.spec.initContainers[].env[].valueFrom

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
`configMapKeyRef`	`object`	Selects a key of a ConfigMap.
`fieldRef`	`object`	Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Property	Type	Description
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
`secretKeyRef`	`object`	Selects a key of a secret in the pod's namespace

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.configMapKeyRef

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key to select.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap or its key must be defined

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.fieldRef

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.secretKeyRef

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key of the secret to select from. Must be a valid secret key.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.initContainers[].envFrom

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].envFrom[]

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
`configMapRef`	`object`	The ConfigMap to select from
`prefix`	`string`	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
`secretRef`	`object`	The Secret to select from

.spec.workloads[].template.spec.initContainers[].envFrom[].configMapRef

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

Property	Type	Description
`optional`	`boolean`	Specify whether the ConfigMap must be defined

.spec.workloads[].template.spec.initContainers[].envFrom[].secretRef

Description

The Secret to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret must be defined

.spec.workloads[].template.spec.initContainers[].lifecycle

Description

Actions that the management system should take in response to container lifecycle events. Cannot be updated.

Type

`object`

Property	Type	Description
`postStart`	`object`	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
`preStop`	`object`	PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the

container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.

Property	Type	Description
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when

tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].livenessProbe

Description

Periodic probe of container liveness. Container will be restarted if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.

Property	Type	Description
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru

Property	Type	Description
		pod are sent a termination signal and the ti processes are forcibly halted with a kill sigı value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceF gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.initContainers[].livenessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root

Property	Type	Description
		('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].livenessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.initContainers[].livenessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].livenessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].livenessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].ports

Description

List of ports to expose from the container. Not specifying a port here DOES NOT prevent that port from being exposed. Any port which is listening on the default "0.0.0.0" address inside a container will be accessible from the network. Modifying this array with strategic merge patch may corrupt the data. For more information See https://github.com/kubernetes/kubernetes/issues/108255. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].ports[]

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
`containerPort`	`integer`	Number of port to expose on the pod's IP address. This must be a valid port number, 0 < x < 65536.

Property	Type	Description
`hostIP`	`string`	What host IP to bind the external port to.
`hostPort`	`integer`	Number of port to expose on the host. If specified, this must be a valid port number, 0 < x < 65536. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
`name`	`string`	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
`protocol`	`string`	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

.spec.workloads[].template.spec.initContainers[].readinessProbe

Description

Periodic probe of container service readiness. Container will be removed from service endpoints if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.initContainers[].readinesProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].readinesProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].readinesProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].readinesProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.initContainers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].readinesProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].readinesProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].readinessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].resizePolicy

Description

Resources resize policy for the container.

Type

`array`

.spec.workloads[].template.spec.initContainers[].resizePolicy[]

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName` `restartPolicy`

Property	Type	Description
`resourceName`	`string`	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.

Property	Type	Description
`restartPolicy`	`string`	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

.spec.workloads[].template.spec.initContainers[].resources

Description

Compute Resources required by this container. Cannot be updated. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

Property	Type	Description
`claims`	`array`	Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.initContainers[].resources.claims

Description

Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].resources.claims[]

Description

ResourceClaim references one entry in PodSpec.ResourceClaims.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.
`request`	`string`	Request is the name chosen for a request in the referenced claim. If empty, everything from the claim is made available, otherwise only the result of this request.

.spec.workloads[].template.spec.initContainers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.initContainers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.initContainers[].securityContext

Description

SecurityContext defines the security options the container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext. More info: https://kubernetes.io/docs/tasks/configure-pod-container/security-context/

Type

`object`

Property	Type	Description
`allowPrivilegeEscalation`	`boolean`	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no_new_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1. run as Privileged 2. has CAP_SYS_ADMIN Note that this field cannot be set when spec.os.name is windows.
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.
`capabilities`	`object`	The capabilities to add/drop when running containers. Defaults to the default set of

Property	Type	Description
		capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.
`privileged`	`boolean`	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when spec.os.name is windows.
`procMount`	`string`	procMount denotes the type of proc mount to use for the containers. The default value is Default which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows.
`readOnlyRootFilesystem`	`boolean`	Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.initContainers[].securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`add`	`array`	Added capabilities

Property	Type	Description
`drop`	`array`	Removed capabilities

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.add

Description

Added capabilities

Type

`array`

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.initContainers[].securityContext.seLinuxOptions

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.

Property	Type	Description
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.initContainers[].securityContext.seccompProfile

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container

Property	Type	Description
		runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.initContainers[].securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same

Property	Type	Description
		effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.initContainers[].startupProbe

Description

StartupProbe indicates that the Pod has successfully initialized. If specified, no other probes are executed until this completes successfully. If this probe fails, the Pod will be restarted, just as if the livenessProbe failed. This can be used to provide different probe parameters at the beginning of a Pod's lifecycle, when it might take a long time to load data or warm a cache, than during steady-state operation. This cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.initContainers[].startupProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].startupProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].startupProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].startupProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.initContainers[].startupProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].startupProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].volumeDevices

Description

volumeDevices is the list of block devices to be used by the container.

Type

`array`

.spec.workloads[].template.spec.initContainers[].volumeDevices[]

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath` `name`

Property	Type	Description
`devicePath`	`string`	devicePath is the path inside of the container that the device will be mapped to.

Property	Type	Description
`name`	`string`	name must match the name of a persistentVolumeClaim in the pod

.spec.workloads[].template.spec.initContainers[].volumeMounts

Description

Pod volumes to mount into the container's filesystem. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].volumeMounts[]

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath` `name`

Property	Type	Description
`mountPath`	`string`	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
`mountPropagation`	`string`	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. When RecursiveReadOnly is set to IfPossible or to Enabled, MountPropagation must be None or unspecified (which defaults to None).
`name`	`string`	This must match the Name of a Volume.
`readOnly`	`boolean`	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
`recursiveReadOnly`	`string`	RecursiveReadOnly specifies whether read-only mounts should be handled recursively. If ReadOnly is false, this field has no meaning and must be unspecified. If ReadOnly is true, and this field is set to Disabled, the mount is not made recursively read-only. If this field is set to IfPossible, the mount is made recursively read-only, if it is supported by the container runtime. If this field is set to Enabled, the mount is made recursively read-only if it is supported by the container runtime, otherwise the pod will not be started and an error will be generated to indicate the reason. If this field is set to IfPossible or Enabled, MountPropagation must be set to None (or be

Property	Type	Description
		unspecified, which defaults to None). If this field is not specified, it is treated as an equivalent of Disabled.
`subPath`	`string`	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
`subPathExpr`	`string`	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references $(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

.spec.workloads[].template.spec.nodeSelector

Description

NodeSelector is a selector which must be true for the pod to fit on a node. Selector which must match a node's labels for the pod to be scheduled on that node. More info: https://kubernetes.io/docs/concepts/configuration/assign-pod-node/

Type

`object`

.spec.workloads[].template.spec.os

Description

Specifies the OS of the containers in the pod. Some pod and container fields are restricted if this is set. If the OS field is set to linux, the following fields must be unset: - securityContext.windowsOptions If the OS field is set to windows, following fields must be unset: - spec.hostPID - spec.hostIPC - spec.hostUsers - spec.securityContext.appArmorProfile - spec.securityContext.seLinuxOptions - spec.securityContext.seccompProfile - spec.securityContext.fsGroup - spec.securityContext.fsGroupChangePolicy - spec.securityContext.sysctls - spec.shareProcessNamespace - spec.securityContext.runAsUser - spec.securityContext.runAsGroup - spec.securityContext.supplementalGroups - spec.securityContext.supplementalGroupsPolicy - spec.containers[*].securityContext.appArmorProfile - spec.containers[*].securityContext.seLinuxOptions - spec.containers[*].securityContext.seccompProfile - spec.containers[*].securityContext.capabilities - spec.containers[*].securityContext.readOnlyRootFilesystem - spec.containers[*].securityContext.privileged - spec.containers[*].securityContext.allowPrivilegeEscalation - spec.containers[*].securityContext.procMount - spec.containers[*].securityContext.runAsUser - spec.containers[*].securityContext.runAsGroup

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name is the name of the operating system. The currently supported values are linux and windows. Additional value may be defined in future and can be one of: https://github.com/opencontainers/runtime-spec/blob/master/config.md#platform-specific-configuration ↗ Clients should expect to handle additional values and treat unrecognized values in this field as os: null

.spec.workloads[].template.spec.overhead

Description

Overhead represents the resource overhead associated with running a pod for a given RuntimeClass. This field will be autopopulated at admission time by the RuntimeClass admission controller. If the RuntimeClass admission controller is enabled, overhead must not be set in Pod create requests. The RuntimeClass admission controller will reject Pod create requests which have the overhead already set. If RuntimeClass is configured and selected in the PodSpec, Overhead will be set to the value defined in the corresponding RuntimeClass, otherwise it will remain unset and treated as zero. More info: https://git.k8s.io/enhancements/keps/sig-node/688-pod-overhead/README.md

Type

`object`

.spec.workloads[].template.spec.readinessGates

Description

If specified, all readiness gates will be evaluated for pod readiness. A pod is ready when all its containers are ready AND all conditions specified in the readiness gates have status equal to "True" More info: https://git.k8s.io/enhancements/keps/sig-network/580-pod-readiness-gates

Type

`array`

.spec.workloads[].template.spec.readinessGates[]

Description

PodReadinessGate contains the reference to a pod condition

Type

`object`

Required

`conditionType`

Property	Type	Description
`conditionType`	`string`	ConditionType refers to a condition in the pod's condition list with matching type.

.spec.workloads[].template.spec.resourceClaims

Description

ResourceClaims defines which ResourceClaims must be allocated and reserved before the Pod is allowed to start. The resources will be made available to those containers which consume them by name. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable.

Type

`array`

.spec.workloads[].template.spec.resourceClaims[]

Description

PodResourceClaim references exactly one ResourceClaim, either directly or by naming a ResourceClaimTemplate which is then turned into a ResourceClaim for the pod. It adds a name to it that uniquely identifies the ResourceClaim inside the Pod. Containers that need access to the ResourceClaim reference it with this name.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name uniquely identifies this resource claim inside the pod. This must be a

Property	Type	Description
		DNS_LABEL.
`resourceClaimName`	`string`	ResourceClaimName is the name of a ResourceClaim object in the same namespace as this pod. Exactly one of ResourceClaimName and ResourceClaimTemplateName must be set.
`resourceClaimTemplateName`	`string`	ResourceClaimTemplateName is the name of a ResourceClaimTemplate object in the same namespace as this pod. The template will be used to create a new ResourceClaim, which will be bound to this pod. When this pod is deleted, the ResourceClaim will also be deleted. The pod name and resource name, along with a generated component, will be used to form a unique name for the ResourceClaim, which will be recorded in pod.status.resourceClaimStatuses. This field is immutable and no changes will be made to the corresponding ResourceClaim by the control plane after creating the ResourceClaim. Exactly one of ResourceClaimName and ResourceClaimTemplateName must be set.

.spec.workloads[].template.spec.schedulingGates

Description

SchedulingGates is an opaque list of values that if specified will block scheduling the pod. If schedulingGates is not empty, the pod will stay in the SchedulingGated state and the scheduler will not attempt to schedule the pod. SchedulingGates can only be set at pod creation time, and be removed only afterwards.

Type

`array`

.spec.workloads[].template.spec.schedulingGates[]

Description

PodSchedulingGate is associated to a Pod to guard its scheduling.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the scheduling gate. Each scheduling gate must have a unique name field.

.spec.workloads[].template.spec.securityContext

Description

SecurityContext holds pod-level security attributes and common container settings. Optional: Defaults to empty. See type description for default values of each field.

Type

`object`

Property	Type	Description
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.
`fsGroup`	`integer`	A special supplemental group that applies to all containers in a pod. Some volume types allow the Kubelet to change the ownership of that volume to be owned by the pod: 1. The owning GID will be the FSGroup 2. The setgid bit is set (new files created in the volume will be owned by FSGroup) 3. The permission bits are OR'd with rw-rw---- If unset, the Kubelet will not modify the ownership and permissions of any volume. Note that this field cannot be set when spec.os.name is windows.
`fsGroupChangePolicy`	`string`	fsGroupChangePolicy defines behavior of changing ownership and permission of the volume before being exposed inside Pod. This field will only apply to volume types which support fsGroup based ownership(and permissions). It will have no effect on ephemeral volume types such as: secret, configmaps and emptydir. Valid values are "OnRootMismatch" and

Property	Type	Description
		"Always". If not specified, "Always" is used. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that

Property	Type	Description
		container. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to all containers. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.
`supplementalGroups`	`array`	A list of groups applied to the first process run in each container, in addition to the container's primary GID and fsGroup (if specified). If the SupplementalGroupsPolicy feature is enabled, the supplementalGroupsPolicy field determines whether these are in addition to or instead of any group memberships defined in the container image. If unspecified, no additional groups are added, though group memberships defined in the container image may still be used, depending on the

Property	Type	Description
		supplementalGroupsPolicy field. Note that this field cannot be set when spec.os.name is windows.
`supplementalGroupsPolicy`	`string`	Defines how supplemental groups of the first container processes are calculated. Valid values are "Merge" and "Strict". If not specified, "Merge" is used. (Alpha) Using the field requires the SupplementalGroupsPolicy feature gate to be enabled and the container runtime must implement support for this feature. Note that this field cannot be set when spec.os.name is windows.
`sysctls`	`array`	Sysctls hold a list of namespaced sysctls used for the pod. Pods with unsupported sysctls (by the container runtime) might fail to launch. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options within a container's SecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.securityContext.seLinuxOptions

Description

The SELinux context to be applied to all containers. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in SecurityContext.

If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.securityContext.seccompProfile

Description

The seccomp options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.securityContext.supplementalGroups

Description

A list of groups applied to the first process run in each container, in addition to the container's primary GID and fsGroup (if specified). If the SupplementalGroupsPolicy feature is enabled, the supplementalGroupsPolicy field determines whether these are in addition to or instead of any group memberships defined in the container image. If unspecified, no additional groups are added, though group memberships defined in the container image may still be used, depending on the supplementalGroupsPolicy field. Note that this field cannot be set when spec.os.name is windows.

Type

`array`

.spec.workloads[].template.spec.securityContext.supplementalGroups[]

Type

`integer`

.spec.workloads[].template.spec.securityContext.sysctls

Description

Sysctls hold a list of namespaced sysctls used for the pod. Pods with unsupported sysctls (by the container runtime) might fail to launch. Note that this field cannot be set when spec.os.name is windows.

Type

`array`

.spec.workloads[].template.spec.securityContext.sysctls[]

Description

Sysctl defines a kernel parameter to be set

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	Name of a property to set
`value`	`string`	Value of a property to set

.spec.workloads[].template.spec.securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options within a container's SecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.

Property	Type	Description
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.tolerations

Description

If specified, the pod's tolerations.

Type

`array`

.spec.workloads[].template.spec.tolerations[]

Description

The pod this Toleration is attached to tolerates any taint that matches the triple <key,value,effect> using the matching operator <operator>.

Type

`object`

Property	Type	Description
`effect`	`string`	Effect indicates the taint effect to match. Empty means match all taint effects. When specified, allowed values are NoSchedule, PreferNoSchedule and NoExecute.
`key`	`string`	Key is the taint key that the toleration applies to. Empty means match all taint keys. If the key is empty, operator must be Exists; this combination means to match all values and all keys.
`operator`	`string`	Operator represents a key's relationship to the value. Valid operators are Exists and Equal. Defaults to Equal. Exists is equivalent to wildcard for value, so that a pod can tolerate all taints of a particular category.
`tolerationSeconds`	`integer`	TolerationSeconds represents the period of time the toleration (which must be of effect NoExecute, otherwise this field is ignored) tolerates the taint. By default, it is not set, which means tolerate the taint forever (do not evict). Zero and negative values will be treated as 0 (evict immediately) by the system.
`value`	`string`	Value is the taint value the toleration matches to. If the operator is Exists, the value should be empty, otherwise just a regular string.

.spec.workloads[].template.spec.topologySpreadConstraints

Description

TopologySpreadConstraints describes how a group of pods ought to spread across topology domains. Scheduler will schedule pods in a way which abides by the constraints. All topologySpreadConstraints are ANDed.

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[]

Description

TopologySpreadConstraint specifies how to spread matching pods among the given topology.

Type

`object`

Required

`maxSkew` `topologyKey` `whenUnsatisfiable`

Property	Type	Description
`labelSelector`	`object`	LabelSelector is used to find matching pods. Pods that match this label selector are counted to determine the number of pods in their corresponding topology domain.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select the pods over which spreading will be calculated. The keys are used to lookup values

Property	Type	Description
		from the incoming pod labels, those key-value labels are ANDed with labelSelector to select the group of existing pods over which spreading will be calculated for the incoming pod. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. MatchLabelKeys cannot be set when LabelSelector isn't set. Keys that don't exist in the incoming pod labels will be ignored. A null or empty list means only match against labelSelector. This is a beta field and requires the MatchLabelKeysInPodTopologySpread feature gate to be enabled (enabled by default).
`maxSkew`	`integer`	MaxSkew describes the degree to which pods may be unevenly distributed. When `whenUnsatisfiable=DoNotSchedule`, it is the maximum permitted difference between the number of matching pods in the target topology and the global minimum. The global minimum is the minimum number of matching pods in an eligible domain or zero if the number of eligible domains is less than MinDomains. For example, in a 3-zone cluster, MaxSkew is set to 1, and pods with the same labelSelector spread as 2/2/1: In this case, the global minimum is 1. | zone1 | zone2 | zone3 | | P P | P P | P | • if MaxSkew is 1, incoming pod can only be scheduled to zone3 to become 2/2/2; scheduling it onto zone1(zone2) would make the ActualSkew(3-1) on zone1(zone2) violate MaxSkew(1).

Property	Type	Description
		• if MaxSkew is 2, incoming pod can be scheduled onto any zone. When `whenUnsatisfiable=ScheduleAnyway`, it is used to give higher precedence to topologies that satisfy it. It's a required field. Default value is 1 and 0 is not allowed.

Property	Type	Description
`minDomains`	`integer`	MinDomains indicates a minimum number of eligible domains. When the number of eligible domains with matching topology keys is less than minDomains, Pod Topology Spread treats "global minimum" as 0, and then the calculation of Skew is performed. And when the number of eligible domains with matching topology keys equals or greater than minDomains, this value has no effect on scheduling. As a result, when the number of eligible domains is less than minDomains, scheduler won't schedule more than maxSkew Pods to those domains. If value is nil, the constraint behaves as if MinDomains is equal to 1. Valid values are integers greater than 0. When value is not nil, WhenUnsatisfiable must be DoNotSchedule. For example, in a 3-zone cluster, MaxSkew is set to 2, MinDomains is set to 5 and pods with the same labelSelector spread as 2/2/2: | zone1 | zone2 | zone3 | | P P | P P | P P | The number of domains is less than 5(MinDomains), so "global minimum" is treated as 0. In this situation, new pod with the same labelSelector cannot be scheduled, because computed skew will be 3(3 - 0) if new Pod is scheduled to any of the three zones, it will violate MaxSkew.
`nodeAffinityPolicy`	`string`	NodeAffinityPolicy indicates how we will treat Pod's nodeAffinity/nodeSelector when calculating pod topology spread skew. Options are:

Property	Type	Description
		• Honor: only nodes matching nodeAffinity/nodeSelector are included in the calculations. • Ignore: nodeAffinity/nodeSelector are ignored. All nodes are included in the calculations. If this value is nil, the behavior is equivalent to the Honor policy. This is a beta-level feature default enabled by the NodeInclusionPolicyInPodTopologySpread feature flag.
`nodeTaintsPolicy`	`string`	NodeTaintsPolicy indicates how we will treat node taints when calculating pod topology spread skew. Options are: • Honor: nodes without taints, along with tainted nodes for which the incoming pod has a toleration, are included. • Ignore: node taints are ignored. All nodes are included. If this value is nil, the behavior is equivalent to the Ignore policy. This is a beta-level feature default enabled by the NodeInclusionPolicyInPodTopologySpread feature flag.
`topologyKey`	`string`	TopologyKey is the key of node labels. Nodes that have a label with this key and identical values are considered to be in the same topology. We consider each <key, value> as a "bucket", and try to put balanced number of pods into each bucket.

Property	Type	Description
		We define a domain as a particular instance of a topology. Also, we define an eligible domain as a domain whose nodes meet the requirements of nodeAffinityPolicy and nodeTaintsPolicy. e.g. If TopologyKey is "kubernetes.io/hostname", each Node is a domain of that topology. And, if TopologyKey is "topology.kubernetes.io/zone", each zone is a domain of that topology. It's a required field.
`whenUnsatisfiable`	`string`	WhenUnsatisfiable indicates how to deal with a pod if it doesn't satisfy the spread constraint. • DoNotSchedule (default) tells the scheduler not to schedule it. • ScheduleAnyway tells the scheduler to schedule the pod in any location, but giving higher precedence to topologies that would help reduce the skew. A constraint is considered "Unsatisfiable" for an incoming pod if and only if every possible node assignment for that pod would violate "MaxSkew" on some topology. For example, in a 3-zone cluster, MaxSkew is set to 1, and pods with the same labelSelector spread as 3/1/1: | zone1 | zone2 | zone3 | | P P P | P | P | If WhenUnsatisfiable is set to DoNotSchedule, incoming pod can only be scheduled to zone2(zone3) to become 3/2/1(3/1/2) as ActualSkew(2-1) on zone2(zone3) satisfies MaxSkew(1). In other words, the cluster can still be imbalanced, but scheduler won't make it *more* imbalanced. It's a required field.

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector

Description

LabelSelector is used to find matching pods. Pods that match this label selector are counted to determine the number of pods in their corresponding topology domain.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.topologySpreadConstraints[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select the pods over which spreading will be calculated. The keys are used to lookup values from the incoming pod labels, those key-value labels are ANDed with labelSelector to select the group of existing pods over which spreading will be calculated for the incoming pod. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. MatchLabelKeys cannot be set when LabelSelector isn't set. Keys that don't exist in the incoming pod labels will be ignored. A null or empty list means only match against labelSelector. This is a beta field and requires the MatchLabelKeysInPodTopologySpread feature gate to be enabled (enabled by default).

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[].matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.volumes

Description

List of volumes that can be mounted by containers belonging to the pod. More info: https://kubernetes.io/docs/concepts/storage/volumes

Type

`array`

.spec.workloads[].template.spec.volumes[]

Description

Volume represents a named volume in a pod that may be accessed by any container in the pod.

Type

`object`

Required

`name`

Property	Type	Description
`awsElasticBlockStore`	`object`	awsElasticBlockStore represents an AWS Disk reso a kubelet's host machine and then exposed to the p https://kubernetes.io/docs/concepts/storage/volume ↗

Property	Type	Description
`azureDisk`	`object`	azureDisk represents an Azure Data Disk mount on mount to the pod.
`azureFile`	`object`	azureFile represents an Azure File Service mount or mount to the pod.
`cephfs`	`object`	cephFS represents a Ceph FS mount on the host tha lifetime
`cinder`	`object`	cinder represents a cinder volume attached and mou machine. More info: https://examples.k8s.io/mysql-c ↗
`configMap`	`object`	configMap represents a configMap that should popu
`csi`	`object`	csi (Container Storage Interface) represents epheme handled by certain external CSI drivers (Beta feature
`downwardAPI`	`object`	downwardAPI represents downward API about the p populate this volume

Property	Type	Description
`emptyDir`	`object`	emptyDir represents a temporary directory that shar More info: https://kubernetes.io/docs/concepts/stora ↗
`ephemeral`	`object`	ephemeral represents a volume that is handled by a The volume's lifecycle is tied to the pod that defines before the pod starts, and deleted when the pod is r Use this if: a) the volume is only needed while the p normal volumes like restoring from snapshot or capa needed, c) the storage driver is specified through a s the storage driver supports dynamic volume provisio PersistentVolumeClaim (see EphemeralVolumeSou information on the connection between this volume t PersistentVolumeClaim). Use PersistentVolumeClaim or one of the vendor-sp volumes that persist for longer than the lifecycle of a Use CSI for light-weight local ephemeral volumes if t meant to be used that way - see the documentation information. A pod can use both types of ephemeral volumes and at the same time.
`fc`	`object`	fc represents a Fibre Channel resource that is attach machine and then exposed to the pod.

Property	Type	Description
`flexVolume`	`object`	flexVolume represents a generic volume resource th provisioned/attached using an exec based plugin.
`flocker`	`object`	flocker represents a Flocker volume attached to a ku This depends on the Flocker control service being ru
`gcePersistentDisk`	`object`	gcePersistentDisk represents a GCE Disk resource kubelet's host machine and then exposed to the pod https://kubernetes.io/docs/concepts/storage/volumes
`gitRepo`	`object`	gitRepo represents a git repository at a particular rev GitRepo is deprecated. To provision a container with EmptyDir into an InitContainer that clones the repo u the EmptyDir into the Pod's container.
`glusterfs`	`object`	glusterfs represents a Glusterfs mount on the host th lifetime. More info: https://examples.k8s.io/volumes/ ↗
`hostPath`	`object`	hostPath represents a pre-existing file or directory o that is directly exposed to the container. This is gene agents or other privileged things that are allowed to Most containers will NOT need this. More info: https://kubernetes.io/docs/concepts/storage/volumes

Property	Type	Description
`image`	`object`	image represents an OCI object (a container image mounted on the kubelet's host machine. The volume startup depending on which PullPolicy value is provi • Always: the kubelet always attempts to pull the re creation will fail If the pull fails. • Never: the kubelet never pulls the reference and image or artifact. Container creation will fail if the present. • IfNotPresent: the kubelet pulls if the reference isr disk. Container creation will fail if the reference is pull fails. The volume gets re-resolved if the pod gets deleted means that new remote content will become availab failure to resolve or pull the image during pod startup from starting and may add significant latency. Failure normal volume backoff and will be reported on the p message. The types of objects that may be mounted defined by the container runtime implementation on minimum must include all valid types supported by tl field. The OCI object gets mounted in a single direct (spec.containers[*].volumeMounts.mountPath) by me *layers in the same way as for container images. The mounted read-only (ro) and non-executable files (no mounts for containers are not supported (spec.containers[*].volumeMounts.subpath). The field spec.securityContext.fsGroupChangePolicy has no type.

Property	Type	Description
`iscsi`	`object`	iscsi represents an ISCSI Disk resource that is attac machine and then exposed to the pod. More info: https://examples.k8s.io/volumes/iscsi/README.md ↗
`name`	`string`	name of the volume. Must be a DNS_LABEL and un More info: https://kubernetes.io/docs/concepts/overv objects/names/#names ↗
`nfs`	`object`	nfs represents an NFS mount on the host that share info: https://kubernetes.io/docs/concepts/storage/vol
`persistentVolumeClaim`	`object`	persistentVolumeClaimVolumeSource represents a r PersistentVolumeClaim in the same namespace. Mo https://kubernetes.io/docs/concepts/storage/persiste volumes#persistentvolumeclaims ↗
`photonPersistentDisk`	`object`	photonPersistentDisk represents a PhotonController attached and mounted on kubelets host machine
`portworxVolume`	`object`	portworxVolume represents a portworx volume attac kubelets host machine
`projected`	`object`	projected items for all in one resources secrets, conf downward API

Property	Type	Description
`quobyte`	`object`	quobyte represents a Quobyte mount on the host tha lifetime
`rbd`	`object`	rbd represents a Rados Block Device mount on the pod's lifetime. More info: https://examples.k8s.io/volumes/rbd/README.md ↗
`scaleIO`	`object`	scaleIO represents a ScaleIO persistent volume atta Kubernetes nodes.
`secret`	`object`	secret represents a secret that should populate this https://kubernetes.io/docs/concepts/storage/volumes
`storageos`	`object`	storageOS represents a StorageOS volume attache Kubernetes nodes.
`vsphereVolume`	`object`	vsphereVolume represents a vSphere volume attach kubelets host machine

.spec.workloads[].template.spec.volumes[].awsElasticBlockStore

Description

awsElasticBlockStore represents an AWS Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info:

https://kubernetes.io/docs/concepts/storage/volumes#awselasticblockstore

Type

`object`

Required

`volumeID`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type of the volume that you want to mou Ensure that the filesystem type is supported by the host operatir Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if ur More info: https://kubernetes.io/docs/concepts/storage/volumes#awselastic ↗
`partition`	`integer`	partition is the partition in the volume that you want to mount. If the default is to mount by volume name. Examples: For volume you specify the partition as "1". Similarly, the volume partition for is "0" (or you can leave the property empty).
`readOnly`	`boolean`	readOnly value true will force the readOnly setting in VolumeMo info: https://kubernetes.io/docs/concepts/storage/volumes#awselastic ↗
`volumeID`	`string`	volumeID is unique ID of the persistent disk resource in AWS (A EBS volume). More info: https://kubernetes.io/docs/concepts/storage/volumes#awselastic ↗

.spec.workloads[].template.spec.volumes[].azureDisk

Description

azureDisk represents an Azure Data Disk mount on the host and bind mount to the pod.

Type

`object`

Required

`diskName` `diskURI`

Property	Type	Description
`cachingMode`	`string`	cachingMode is the Host Caching mode: None, Read Only, Read Write.
`diskName`	`string`	diskName is the Name of the data disk in the blob storage
`diskURI`	`string`	diskURI is the URI of data disk in the blob storage
`fsType`	`string`	fsType is Filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`kind`	`string`	kind expected values are Shared: multiple blob disks per storage account Dedicated: single blob disk per storage account Managed: azure managed data disk (only in managed availability set). defaults to shared

Property	Type	Description
`readOnly`	`boolean`	readOnly Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.

.spec.workloads[].template.spec.volumes[].azureFile

Description

azureFile represents an Azure File Service mount on the host and bind mount to the pod.

Type

`object`

Required

`secretName` `shareName`

Property	Type	Description
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretName`	`string`	secretName is the name of secret that contains Azure Storage Account Name and Key
`shareName`	`string`	shareName is the azure share Name

.spec.workloads[].template.spec.volumes[].cephfs

Description

cephFS represents a Ceph FS mount on the host that shares a pod's lifetime

Type

`object`

Required

`monitors`

Property	Type	Description
`monitors`	`array`	monitors is Required: Monitors is a collection of Ceph monitors More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
`path`	`string`	path is Optional: Used as the mounted root, rather than the full Ceph tree, default is /
`readOnly`	`boolean`	readOnly is Optional: Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
`secretFile`	`string`	secretFile is Optional: SecretFile is the path to key ring for User, default is /etc/ceph/user.secret More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗

Property	Type	Description
`secretRef`	`object`	secretRef is Optional: SecretRef is reference to the authentication secret for User, default is empty. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
`user`	`string`	user is optional: User is the rados user name, default is admin More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗

.spec.workloads[].template.spec.volumes[].cephfs.monitors

Description

monitors is Required: Monitors is a collection of Ceph monitors More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it

Type

`array`

.spec.workloads[].template.spec.volumes[].cephfs.monitors[]

Type

`string`

.spec.workloads[].template.spec.volumes[].cephfs.secretRef

Description

secretRef is Optional: SecretRef is reference to the authentication secret for User, default is empty. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].cinder

Description

cinder represents a cinder volume attached and mounted on kubelets host machine. More info: https://examples.k8s.io/mysql-cinder-pd/README.md

Type

`object`

Required

`volumeID`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗
`secretRef`	`object`	secretRef is optional: points to a secret object containing parameters used to connect to OpenStack.
`volumeID`	`string`	volumeID used to identify the volume in cinder. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗

.spec.workloads[].template.spec.volumes[].cinder.secretRef

Description

secretRef is optional: points to a secret object containing parameters used to connect to OpenStack.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].configMap

Description

configMap represents a configMap that should populate this volume

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	defaultMode is optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`items`	`array`	items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified

Property	Type	Description
		paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	optional specify whether the ConfigMap or its keys must be defined

.spec.workloads[].template.spec.volumes[].configMap.items

Description

items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].configMap.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].csi

Description

csi (Container Storage Interface) represents ephemeral storage that is handled by certain external CSI drivers (Beta feature).

Type

`object`

Required

`driver`

Property	Type	Description
`driver`	`string`	driver is the name of the CSI driver that handles this volume. Consult with your admin for the correct name as registered in the cluster.
`fsType`	`string`	fsType to mount. Ex. "ext4", "xfs", "ntfs". If not provided, the empty value is passed to the associated CSI driver which will determine the default filesystem to apply.
`nodePublishSecretRef`	`object`	nodePublishSecretRef is a reference to the secret object containing sensitive information to pass to the CSI driver to complete the CSI NodePublishVolume and NodeUnpublishVolume calls. This field is optional, and may be empty if no secret is required. If the secret object contains more than one secret, all secret references are passed.
`readOnly`	`boolean`	readOnly specifies a read-only configuration for the volume. Defaults to false (read/write).

Property	Type	Description
`volumeAttributes`	`object`	volumeAttributes stores driver-specific properties that are passed to the CSI driver. Consult your driver's documentation for supported values.

.spec.workloads[].template.spec.volumes[].csi.nodePublishSecretRef

Description

nodePublishSecretRef is a reference to the secret object containing sensitive information to pass to the CSI driver to complete the CSI NodePublishVolume and NodeUnpublishVolume calls. This field is optional, and may be empty if no secret is required. If the secret object contains more than one secret, all secret references are passed.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].csi.volumeAttributes

Description

volumeAttributes stores driver-specific properties that are passed to the CSI driver. Consult your driver's documentation for supported values.

Type

`object`

.spec.workloads[].template.spec.volumes[].downwardAPI

Description

downwardAPI represents downward API about the pod that should populate this volume

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	Optional: mode bits to use on created files by default. Must be a Optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`items`	`array`	Items is a list of downward API volume file

.spec.workloads[].template.spec.volumes[].downwardAPI.items

Description

Items is a list of downward API volume file

Type

`array`

.spec.workloads[].template.spec.volumes[].downwardAPI.items[]

Description

DownwardAPIVolumeFile represents information to create the file containing the pod field

Type

`object`

Required

`path`

Property	Type	Description
`fieldRef`	`object`	Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.
`mode`	`integer`	Optional: mode bits used to set permissions on this file, must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.

Property	Type	Description
`path`	`string`	Required: Path is the relative path name of the file to be created. Must not be absolute or contain the '..' path. Must be utf-8 encoded. The first item of the relative path must not start with '..'
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

.spec.workloads[].template.spec.volumes[].downwardAPI.items[].fieldRef

Description

Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".

Property	Type	Description
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.volumes[].downwardAPI.items[].resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.volumes[].emptyDir

Description

emptyDir represents a temporary directory that shares a pod's lifetime. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir

Type

`object`

Property	Type	Description
`medium`	`string`	medium represents what type of storage medium should back this directory. The default is "" which means to use the node's default medium. Must be an empty string (default) or Memory. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir ↗
`sizeLimit`		sizeLimit is the total amount of local storage required for this EmptyDir volume. The size limit is also applicable for memory medium. The maximum usage on memory medium EmptyDir would be the minimum value between the SizeLimit specified here and the sum of memory limits of all containers in a pod. The default is nil which means that the limit is undefined. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir ↗

.spec.workloads[].template.spec.volumes[].ephemeral

Description

ephemeral represents a volume that is handled by a cluster storage driver. The volume's lifecycle is tied to the pod that defines it - it will be created before the pod starts, and deleted when the pod is removed. Use this if: a) the volume is only needed while the pod runs, b) features of normal volumes like restoring from snapshot or capacity tracking are needed, c) the storage driver is specified through a storage class, and d) the storage driver supports dynamic volume provisioning through a PersistentVolumeClaim (see

EphemeralVolumeSource for more information on the connection between this volume type and PersistentVolumeClaim). Use PersistentVolumeClaim or one of the vendor-specific APIs for volumes that persist for longer than the lifecycle of an individual pod. Use CSI for light-weight local ephemeral volumes if the CSI driver is meant to be used that way - see the documentation of the driver for more information. A pod can use both types of ephemeral volumes and persistent volumes at the same time.

Type

`object`

Property	Type	Description
`volumeClaimTemplate`	`object`	Will be used to create a stand-alone PVC to provision the volume. The pod in which this EphemeralVolumeSource is embedded will be the owner of the PVC, i.e. the PVC will be deleted together with the pod. The name of the PVC will be `<pod name>-<volume name>` where `<volume name>` is the name from the `PodSpec.Volumes` array entry. Pod validation will reject the pod if the concatenated name is not valid for a PVC (for example, too long). An existing PVC with that name that is not owned by the pod will *not* be used for the pod to avoid using an unrelated volume by mistake. Starting the pod is then blocked until the unrelated PVC is removed. If such a pre-created PVC is meant to be used by the pod, the PVC has to updated with an owner reference to the pod once the pod exists. Normally this should not be necessary, but it may be useful when manually reconstructing a broken cluster. This field is read-only and no changes will be made by Kubernetes to the PVC after it has been created.

Property	Type	Description
		Required, must not be nil.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate

Description

Will be used to create a stand-alone PVC to provision the volume. The pod in which this EphemeralVolumeSource is embedded will be the owner of the PVC, i.e. the PVC will be deleted together with the pod. The name of the PVC will be `<pod name>-<volume name>` where `<volume name>` is the name from the `PodSpec.Volumes` array entry. Pod validation will reject the pod if the concatenated name is not valid for a PVC (for example, too long). An existing PVC with that name that is not owned by the pod will *not* be used for the pod to avoid using an unrelated volume by mistake. Starting the pod is then blocked until the unrelated PVC is removed. If such a pre-created PVC is meant to be used by the pod, the PVC has to updated with an owner reference to the pod once the pod exists. Normally this should not be necessary, but it may be useful when manually reconstructing a broken cluster. This field is read-only and no changes will be made by Kubernetes to the PVC after it has been created. Required, must not be nil.

Type

`object`

Required

`spec`

Property	Type	Description
`metadata`	`ObjectMeta` ↗	May contain labels and annotations that will be copied into the PVC when creating it. No other fields are allowed and will be rejected during validation.

Property	Type	Description
`spec`	`object`	The specification for the PersistentVolumeClaim. The entire content is copied unchanged into the PVC that gets created from this template. The same fields as in a PersistentVolumeClaim are also valid here.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec

Description

The specification for the PersistentVolumeClaim. The entire content is copied unchanged into the PVC that gets created from this template. The same fields as in a PersistentVolumeClaim are also valid here.

Type

`object`

Property	Type	Description
`accessModes`	`array`	accessModes contains the desired access mod volume should have. More info: https://kubernetes.io/docs/concepts/storage/per volumes#access-modes-1 ↗
`dataSource`	`object`	dataSource field can be used to specify either: • An existing VolumeSnapshot object (snapshot.storage.k8s.io/VolumeSnapshot) • An existing PVC (PersistentVolumeClaim) If provisioner or an external controller can sup the specified data source, it will create a nev

Property	Type	Description
		volume based on the contents of the specifie source. When the AnyVolumeDataSource fe gate is enabled, dataSource contents will be to dataSourceRef, and dataSourceRef conte be copied to dataSource when dataSourceRef.namespace is not specified. namespace is specified, then dataSourceRe not be copied to dataSource.
`dataSourceRef`	`object`	dataSourceRef specifies the object from which populate the volume with data, if a non-empty v is desired. This may be any object from a non-e API group (non core object) or a PersistentVolumeClaim object. When this field i specified, volume binding will only succeed if th of the specified object matches some installed v populator or dynamic provisioner. This field will the functionality of the dataSource field and as both fields are non-empty, they must have the s value. For backwards compatibility, when name isn't specified in dataSourceRef, both fields (dataSource and dataSourceRef) will be set to t same value automatically if one of them is empt the other is non-empty. When namespace is sp in dataSourceRef, dataSource isn't set to the sa value and must be empty. There are three impo differences between dataSource and dataSourc • While dataSource only allows two specific ty objects, dataSourceRef allows any non-core as well as PersistentVolumeClaim objects. • While dataSource ignores disallowed values (dropping them), dataSourceRef preserves a

Property	Type	Description
		values, and generates an error if a disallowe value is specified. • While dataSource only allows local objects, dataSourceRef allows objects in any names (Beta) Using this field requires the AnyVolumeDataSource feature gate to be er (Alpha) Using the namespace field of dataSourceRef requires the CrossNamespaceVolumeDataSource featur to be enabled.
`resources`	`object`	resources represents the minimum resources th volume should have. If RecoverVolumeExpansionFailure feature is ena users are allowed to specify resource requireme that are lower than previous value but must still higher than capacity recorded in the status field claim. More info: https://kubernetes.io/docs/concepts/storage/per volumes#resources ↗
`selector`	`object`	selector is a label query over volumes to consid binding.
`storageClassName`	`string`	storageClassName is the name of the StorageC required by the claim. More info: https://kubernetes.io/docs/concepts/storage/per volumes#class-1 ↗

Property	Type	Description
`volumeAttributesClassName`	`string`	volumeAttributesClassName may be used to se VolumeAttributesClass used by this claim. If spe the CSI driver will create or update the volume attributes defined in the corresponding VolumeAttributesClass. This has a different pur than storageClassName, it can be changed afte claim is created. An empty string value means t VolumeAttributesClass will be applied to the cla it's not allowed to reset this field to empty string is set. If unspecified and the PersistentVolumeC unbound, the default VolumeAttributesClass wil by the persistentvolume controller if it exists. If t resource referred to by volumeAttributesClass d not exist, this PersistentVolumeClaim will be se Pending state, as reflected by the modifyVolum field, until such as a resource exists. More info: https://kubernetes.io/docs/concepts/storage/vol attributes-classes/↗ (Beta) Using this field requ the VolumeAttributesClass feature gate to be en (off by default).
`volumeMode`	`string`	volumeMode defines what type of volume is req by the claim. Value of Filesystem is implied whe included in claim spec.
`volumeName`	`string`	volumeName is the binding reference to the PersistentVolume backing this claim.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.accessModes

Description

accessModes contains the desired access modes the volume should have. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#access-modes-1

Type

`array`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.accessModes[]

Type

`string`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.dataSource

Description

dataSource field can be used to specify either: * An existing VolumeSnapshot object (snapshot.storage.k8s.io/VolumeSnapshot) * An existing PVC (PersistentVolumeClaim) If the provisioner or an external controller can support the specified data source, it will create a new volume based on the contents of the specified data source. When the AnyVolumeDataSource feature gate is enabled, dataSource contents will be copied to dataSourceRef, and dataSourceRef contents will be copied to dataSource when dataSourceRef.namespace is not specified. If the namespace is specified, then dataSourceRef will not be copied to dataSource.

Type

`object`

Required

`kind` `name`

Property	Type	Description
`apiGroup`	`string`	APIGroup is the group for the resource being referenced. If APIGroup is not specified, the specified Kind must be in the core API group. For any other third-party types, APIGroup is required.
`kind`	`string`	Kind is the type of resource being referenced
`name`	`string`	Name is the name of resource being referenced

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.dataSourceRef

Description

dataSourceRef specifies the object from which to populate the volume with data, if a non-empty volume is desired. This may be any object from a non-empty API group (non core object) or a PersistentVolumeClaim object. When this field is specified, volume binding will only succeed if the type of the specified object matches some installed volume populator or dynamic provisioner. This field will replace the functionality of the dataSource field and as such if both fields are non-empty, they must have the same value. For backwards compatibility, when namespace isn't specified in dataSourceRef, both fields (dataSource and dataSourceRef) will be set to the same value automatically if one of them is empty and the other is non-empty. When namespace is specified in dataSourceRef, dataSource isn't set to the same value and must be empty. There are three important differences between dataSource and dataSourceRef: * While dataSource only allows two specific types of objects, dataSourceRef allows any non-core object, as well as PersistentVolumeClaim objects. * While dataSource ignores disallowed values (dropping them), dataSourceRef preserves all values, and generates an error if a disallowed value is specified. * While dataSource only allows local objects, dataSourceRef allows objects in any namespaces. (Beta) Using this field requires the AnyVolumeDataSource feature gate to be enabled.

(Alpha) Using the namespace field of dataSourceRef requires the CrossNamespaceVolumeDataSource feature gate to be enabled.

Type

`object`

Required

`kind` `name`

Property	Type	Description
`apiGroup`	`string`	APIGroup is the group for the resource being referenced. If APIGroup is not specified, the specified Kind must be in the core API group. For any other third-party types, APIGroup is required.
`kind`	`string`	Kind is the type of resource being referenced
`name`	`string`	Name is the name of resource being referenced
`namespace`	`string`	Namespace is the namespace of resource being referenced Note that when a namespace is specified, a gateway.networking.k8s.io/ReferenceGrant object is required in the referent namespace to allow that namespace's owner to accept the reference. See the ReferenceGrant documentation for details. (Alpha) This field requires the CrossNamespaceVolumeDataSource feature gate to be enabled.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources

Description

resources represents the minimum resources the volume should have. If RecoverVolumeExpansionFailure feature is enabled users are allowed to specify resource requirements that are lower than previous value but must still be higher than capacity recorded in the status field of the claim. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#resources

Type

`object`

Property	Type	Description
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector

Description

selector is a label query over volumes to consider for binding.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.

Property	Type	Description
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.volumes[].fc

Description

fc represents a Fibre Channel resource that is attached to a kubelet's host machine and then exposed to the pod.

Type

`object`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`lun`	`integer`	lun is Optional: FC target lun number
`readOnly`	`boolean`	readOnly is Optional: Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in

Property	Type	Description
		VolumeMounts.
`targetWWNs`	`array`	targetWWNs is Optional: FC target worldwide names (WWNs)
`wwids`	`array`	wwids Optional: FC volume world wide identifiers (wwids) Either wwids or combination of targetWWNs and lun must be set, but not both simultaneously.

.spec.workloads[].template.spec.volumes[].fc.targetWWNs

Description

targetWWNs is Optional: FC target worldwide names (WWNs)

Type

`array`

.spec.workloads[].template.spec.volumes[].fc.targetWWNs[]

Type

`string`

.spec.workloads[].template.spec.volumes[].fc.wwids

Description

wwids Optional: FC volume world wide identifiers (wwids) Either wwids or combination of targetWWNs and lun must be set, but not both simultaneously.

Type

`array`

.spec.workloads[].template.spec.volumes[].fc.wwids[]

Type

`string`

.spec.workloads[].template.spec.volumes[].flexVolume

Description

flexVolume represents a generic volume resource that is provisioned/attached using an exec based plugin.

Type

`object`

Required

`driver`

Property	Type	Description
`driver`	`string`	driver is the name of the driver to use for this volume.
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". The default filesystem depends on FlexVolume script.
`options`	`object`	options is Optional: this field holds extra command options if any.

Property	Type	Description
`readOnly`	`boolean`	readOnly is Optional: defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretRef`	`object`	secretRef is Optional: secretRef is reference to the secret object containing sensitive information to pass to the plugin scripts. This may be empty if no secret object is specified. If the secret object contains more than one secret, all secrets are passed to the plugin scripts.

.spec.workloads[].template.spec.volumes[].flexVolume.options

Description

options is Optional: this field holds extra command options if any.

Type

`object`

.spec.workloads[].template.spec.volumes[].flexVolume.secretRef

Description

secretRef is Optional: secretRef is reference to the secret object containing sensitive information to pass to the plugin scripts. This may be empty if no secret object is specified. If the secret object contains more than one secret, all secrets are passed to the plugin scripts.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].flocker

Description

flocker represents a Flocker volume attached to a kubelet's host machine. This depends on the Flocker control service being running

Type

`object`

Property	Type	Description
`datasetName`	`string`	datasetName is Name of the dataset stored as metadata -> name on the dataset for Flocker should be considered as deprecated
`datasetUUID`	`string`	datasetUUID is the UUID of the dataset. This is unique identifier of a Flocker dataset

.spec.workloads[].template.spec.volumes[].gcePersistentDisk

Description

gcePersistentDisk represents a GCE Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersistentdisk

Type

`object`

Required

`pdName`

Property	Type	Description
`fsType`	`string`	fsType is filesystem type of the volume that you want to mount. Ensure that the filesystem type is supported by the host operatir system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "e unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗
`partition`	`integer`	partition is the partition in the volume that you want to mount. If omitted, the default is to mount by volume name. Examples: For volume /dev/sda1, you specify the partition as "1". Similarly, the partition for /dev/sda is "0" (or you can leave the property empty info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗
`pdName`	`string`	pdName is unique name of the PD resource in GCE. Used to ide the disk in GCE. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly here will force the ReadOnly setting in VolumeMounts Defaults to false. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗

.spec.workloads[].template.spec.volumes[].gitRepo

Description

gitRepo represents a git repository at a particular revision. DEPRECATED: GitRepo is deprecated. To provision a container with a git repo, mount an EmptyDir into an InitContainer that clones the repo using git, then mount the EmptyDir into the Pod's container.

Type

`object`

Required

`repository`

Property	Type	Description
`directory`	`string`	directory is the target directory name. Must not contain or start with '..'. If '.' is supplied, the volume directory will be the git repository. Otherwise, if specified, the volume will contain the git repository in the subdirectory with the given name.
`repository`	`string`	repository is the URL

Property	Type	Description
`revision`	`string`	revision is the commit hash for the specified revision.

.spec.workloads[].template.spec.volumes[].glusterfs

Description

glusterfs represents a Glusterfs mount on the host that shares a pod's lifetime. More info: https://examples.k8s.io/volumes/glusterfs/README.md

Type

`object`

Required

`endpoints` `path`

Property	Type	Description
`endpoints`	`string`	endpoints is the endpoint name that details Glusterfs topology. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗
`path`	`string`	path is the Glusterfs volume path. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly here will force the Glusterfs volume to be mounted with read-only permissions. Defaults to false. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗

.spec.workloads[].template.spec.volumes[].hostPath

Description

hostPath represents a pre-existing file or directory on the host machine that is directly exposed to the container. This is generally used for system agents or other privileged things that are allowed to see the host machine. Most containers will NOT need this. More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath

Type

`object`

Required

`path`

Property	Type	Description
`path`	`string`	path of the directory on the host. If the path is a symlink, it will follow the link to the real path. More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath ↗
`type`	`string`	type for HostPath Volume Defaults to "" More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath ↗

.spec.workloads[].template.spec.volumes[].image

Description

image represents an OCI object (a container image or artifact) pulled and mounted on the kubelet's host machine. The volume is resolved at pod startup depending on which PullPolicy value is provided: - Always: the kubelet always attempts to pull the reference. Container creation will fail If the pull fails. - Never: the kubelet never pulls the reference and only uses a local image or artifact. Container creation will fail if the reference isn't present. - IfNotPresent: the kubelet pulls if the reference isn't already present on disk. Container creation will fail if the reference isn't present and the pull fails. The volume gets re-resolved if the pod gets deleted and recreated, which means that new remote content will become available on pod recreation. A failure to resolve or pull the image during pod startup will block containers from starting and may add significant latency. Failures will be retried using normal volume backoff and will be reported on the pod reason and message. The types of objects that may be mounted by this volume are defined by the container runtime implementation on a host machine and at minimum must include all valid types supported by the container image field. The OCI object gets mounted in a single directory (spec.containers[*].volumeMounts.mountPath) by merging the manifest layers in the same way as for container images. The volume will be mounted read-only (ro) and non-executable files (noexec). Sub path mounts for containers are not supported (spec.containers[*].volumeMounts.subpath). The field spec.securityContext.fsGroupChangePolicy has no effect on this volume type.

Type

`object`

Property	Type	Description
`pullPolicy`	`string`	Policy for pulling OCI objects. Possible values are: Always: the kubelet always attempts to pull the reference. Container creation will fail If the pull fails. Never: the kubelet never pulls the reference and only uses a local image or artifact. Container creation will fail if the reference isn't present. IfNotPresent: the kubelet pulls if the reference isn't already present on disk. Container creation will fail if the reference isn't present and the pull fails. Defaults to Always if :latest tag is specified, or IfNotPresent otherwise.
`reference`	`string`	Required: Image or artifact reference to be used. Behaves in the same way as pod.spec.containers[*].image. Pull secrets will be assembled in the same way as for the container image by looking up node credentials, SA image pull secrets, and pod spec image pull secrets. More info: https://kubernetes.io/docs/concepts/containers/images ↗ This field is optional to allow higher level config management to default or override container images in workload controllers like Deployments and StatefulSets.

.spec.workloads[].template.spec.volumes[].iscsi

Description

iscsi represents an ISCSI Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info: https://examples.k8s.io/volumes/iscsi/README.md

Type

`object`

Required

`iqn` `lun` `targetPortal`

Property	Type	Description
`chapAuthDiscovery`	`boolean`	chapAuthDiscovery defines whether support iSCSI Discovery CHAP authentication
`chapAuthSession`	`boolean`	chapAuthSession defines whether support iSCSI Sessior CHAP authentication
`fsType`	`string`	fsType is the filesystem type of the volume that you want to mount. Tip: Ensure that the filesystem type is supporte by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#isc ↗
`initiatorName`	`string`	initiatorName is the custom iSCSI Initiator Name. If initiatorName is specified with iscsiInterface simultaneously, new iSCSI interface : will be created for the connection.
`iqn`	`string`	iqn is the target iSCSI Qualified Name.
`iscsiInterface`	`string`	iscsiInterface is the interface Name that uses an iSCSI transport. Defaults to 'default' (tcp).
`lun`	`integer`	lun represents iSCSI Target Lun number.

Property	Type	Description
`portals`	`array`	portals is the iSCSI Target Portal List. The portal is either an IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).
`readOnly`	`boolean`	readOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false.
`secretRef`	`object`	secretRef is the CHAP Secret for iSCSI target and initiato authentication
`targetPortal`	`string`	targetPortal is iSCSI Target Portal. The Portal is either ar IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).

.spec.workloads[].template.spec.volumes[].iscsi.portals

Description

portals is the iSCSI Target Portal List. The portal is either an IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).

Type

`array`

.spec.workloads[].template.spec.volumes[].iscsi.portals[]

Type

`string`

.spec.workloads[].template.spec.volumes[].iscsi.secretRef

Description

secretRef is the CHAP Secret for iSCSI target and initiator authentication

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].nfs

Description

nfs represents an NFS mount on the host that shares a pod's lifetime More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs

Type

`object`

Required

`path` `server`

Property	Type	Description
`path`	`string`	path that is exported by the NFS server. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly here will force the NFS export to be mounted with read-only permissions. Defaults to false. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗
`server`	`string`	server is the hostname or IP address of the NFS server. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗

.spec.workloads[].template.spec.volumes[].persistentVolumeClaim

Description

persistentVolumeClaimVolumeSource represents a reference to a PersistentVolumeClaim in the same namespace. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#persistentvolumeclaims

Type

`object`

Required

`claimName`

Property	Type	Description
`claimName`	`string`	claimName is the name of a PersistentVolumeClaim in the same namespace as the pod using this volume. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#persistentvolumeclaims ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly Will force the ReadOnly setting in VolumeMounts. Default false.

.spec.workloads[].template.spec.volumes[].photonPersistentDisk

Description

photonPersistentDisk represents a PhotonController persistent disk attached and mounted on kubelets host machine

Type

`object`

Required

`pdID`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`pdID`	`string`	pdID is the ID that identifies Photon Controller persistent disk

.spec.workloads[].template.spec.volumes[].portworxVolume

Description

portworxVolume represents a portworx volume attached and mounted on kubelets host machine

Type

`object`

Required

`volumeID`

Property	Type	Description
`fsType`	`string`	fSType represents the filesystem type to mount Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs". Implicitly inferred to be "ext4" if unspecified.
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`volumeID`	`string`	volumeID uniquely identifies a Portworx volume

.spec.workloads[].template.spec.volumes[].projected

Description

projected items for all in one resources secrets, configmaps, and downward API

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	defaultMode are the mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`sources`	`array`	sources is the list of volume projections. Each entry in this list handles one source.

.spec.workloads[].template.spec.volumes[].projected.sources

Description

sources is the list of volume projections. Each entry in this list handles one source.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[]

Description

Projection that may be projected along with other supported volume types. Exactly one of these fields must be set.

Type

`object`

Property	Type	Description
`clusterTrustBundle`	`object`	ClusterTrustBundle allows a pod to access the `.spec.trustBundle` field of ClusterTrustBundle objects in an auto-updating file. Alpha, gated by the ClusterTrustBundleProjection feature gate. ClusterTrustBundle objects can either be selected by name, or by the combination of signer name and a label selector. Kubelet performs aggressive normalization of the PEM contents written into the pod filesystem. Esoteric PEM features such as inter-block comments and block headers are stripped. Certificates are deduplicated. The ordering of certificates within the file is arbitrary, and Kubelet may change the order over time.
`configMap`	`object`	configMap information about the configMap data to project
`downwardAPI`	`object`	downwardAPI information about the downwardAPI data to project
`secret`	`object`	secret information about the secret data to project

Property	Type	Description
`serviceAccountToken`	`object`	serviceAccountToken is information about the serviceAccountToken data to project

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle

Description

ClusterTrustBundle allows a pod to access the `.spec.trustBundle` field of ClusterTrustBundle objects in an auto-updating file. Alpha, gated by the ClusterTrustBundleProjection feature gate. ClusterTrustBundle objects can either be selected by name, or by the combination of signer name and a label selector. Kubelet performs aggressive normalization of the PEM contents written into the pod filesystem. Esoteric PEM features such as inter-block comments and block headers are stripped. Certificates are deduplicated. The ordering of certificates within the file is arbitrary, and Kubelet may change the order over time.

Type

`object`

Required

`path`

Property	Type	Description
`labelSelector`	`object`	Select all ClusterTrustBundles that match this label selector. Only has effect if signerName is set. Mutually-exclusive with name. If unset, interpreted as "match nothing". If set but empty, interpreted as "match everything".

Property	Type	Description
`name`	`string`	Select a single ClusterTrustBundle by object name. Mutually-exclusive with signerName and labelSelector.
`optional`	`boolean`	If true, don't block pod startup if the referenced ClusterTrustBundle(s) aren't available. If using name, then the named ClusterTrustBundle is allowed not to exist. If using signerName, then the combination of signerName and labelSelector is allowed to match zero ClusterTrustBundles.
`path`	`string`	Relative path from the volume root to write the bundle.
`signerName`	`string`	Select all ClusterTrustBundles that match this signer name. Mutually-exclusive with name. The contents of all selected ClusterTrustBundles will be unified and deduplicated.

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector

Description

Select all ClusterTrustBundles that match this label selector. Only has effect if signerName is set. Mutually-exclusive with name. If unset, interpreted as "match nothing". If set but empty, interpreted as "match everything".

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.volumes[].projected.sources[].configMap

Description

configMap information about the configMap data to project

Type

`object`

Property	Type	Description
`items`	`array`	items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	optional specify whether the ConfigMap or its keys must be defined

.spec.workloads[].template.spec.volumes[].projected.sources[].configMap.items

Description

items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will

error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].configMap.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.

Property	Type	Description
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI

Description

downwardAPI information about the downwardAPI data to project

Type

`object`

Property	Type	Description
`items`	`array`	Items is a list of DownwardAPIVolume file

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items

Description

Items is a list of DownwardAPIVolume file

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items[]

Description

DownwardAPIVolumeFile represents information to create the file containing the pod field

Type

`object`

Required

`path`

Property	Type	Description
`fieldRef`	`object`	Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.
`mode`	`integer`	Optional: mode bits used to set permissions on this file, must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	Required: Path is the relative path name of the file to be created. Must not be absolute or contain the '..' path. Must be utf-8 encoded. The first item of the relative path must not start with '..'
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory,

Property	Type	Description
		requests.cpu and requests.memory) are currently supported.

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items[].fieldRef

Description

Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items[].resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.volumes[].projected.sources[].secret

Description

secret information about the secret data to project

Type

`object`

Property	Type	Description
`items`	`array`	items if unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified

Property	Type	Description
		paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	optional field specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.volumes[].projected.sources[].secret.items

Description

items if unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].secret.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].projected.sources[].serviceAccountToken

Description

serviceAccountToken is information about the serviceAccountToken data to project

Type

`object`

Required

`path`

Property	Type	Description
`audience`	`string`	audience is the intended audience of the token. A recipient of a token must identify itself with an identifier specified in the audience of the token, and otherwise should reject the token. The audience defaults to the identifier of the apiserver.
`expirationSeconds`	`integer`	expirationSeconds is the requested duration of validity of the service account token. As the token approaches expiration, the kubelet volume plugin will proactively rotate the service account token. The kubelet will start trying to rotate the token if the token is older than 80 percent of its time to live or if the token is older than 24 hours.Defaults to 1 hour and must be at least 10 minutes.
`path`	`string`	path is the path relative to the mount point of the file to project the token into.

.spec.workloads[].template.spec.volumes[].quobyte

Description

quobyte represents a Quobyte mount on the host that shares a pod's lifetime

Type

`object`

Required

`registry` `volume`

Property	Type	Description
`group`	`string`	group to map volume access to Default is no group
`readOnly`	`boolean`	readOnly here will force the Quobyte volume to be mounted with read-only permissions. Defaults to false.
`registry`	`string`	registry represents a single or multiple Quobyte Registry services specified as a string as host:port pair (multiple entries are separated with commas) which acts as the central registry for volumes
`tenant`	`string`	tenant owning the given Quobyte volume in the Backend Used with dynamically provisioned Quobyte volumes, value is set by the plugin
`user`	`string`	user to map volume access to Defaults to serivceaccount user
`volume`	`string`	volume is a string that references an already created Quobyte volume by name.

.spec.workloads[].template.spec.volumes[].rbd

Description

rbd represents a Rados Block Device mount on the host that shares a pod's lifetime. More info: https://examples.k8s.io/volumes/rbd/README.md

Type

`object`

Required

`image` `monitors`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type of the volume that you want to mount. Tip: Ensure that the filesystem type is supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#rbd ↗
`image`	`string`	image is the rados image name. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`keyring`	`string`	keyring is the path to key ring for RBDUser. Default is /etc/ceph/keyring. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗

Property	Type	Description
`monitors`	`array`	monitors is a collection of Ceph monitors. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`pool`	`string`	pool is the rados pool name. Default is rbd. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`readOnly`	`boolean`	readOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`secretRef`	`object`	secretRef is name of the authentication secret for RBDUser. If provided overrides keyring. Default is nil. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`user`	`string`	user is the rados user name. Default is admin. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗

.spec.workloads[].template.spec.volumes[].rbd.monitors

Description

monitors is a collection of Ceph monitors. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it

Type

`array`

.spec.workloads[].template.spec.volumes[].rbd.monitors[]

Type

`string`

.spec.workloads[].template.spec.volumes[].rbd.secretRef

Description

secretRef is name of the authentication secret for RBDUser. If provided overrides keyring. Default is nil. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].scaleIO

Description

scaleIO represents a ScaleIO persistent volume attached and mounted on Kubernetes nodes.

Type

`object`

Required

`gateway` `secretRef` `system`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Default is "xfs".
`gateway`	`string`	gateway is the host address of the ScaleIO API Gateway.
`protectionDomain`	`string`	protectionDomain is the name of the ScaleIO Protection Domain for the configured storage.
`readOnly`	`boolean`	readOnly Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretRef`	`object`	secretRef references to the secret for ScaleIO user and other sensitive information. If this is not provided, Login operation will fail.
`sslEnabled`	`boolean`	sslEnabled Flag enable/disable SSL communication with Gateway, default false

Property	Type	Description
`storageMode`	`string`	storageMode indicates whether the storage for a volume should be ThickProvisioned or ThinProvisioned. Default is ThinProvisioned.
`storagePool`	`string`	storagePool is the ScaleIO Storage Pool associated with the protection domain.
`system`	`string`	system is the name of the storage system as configured in ScaleIO.
`volumeName`	`string`	volumeName is the name of a volume already created in the ScaleIO system that is associated with this volume source.

.spec.workloads[].template.spec.volumes[].scaleIO.secretRef

Description

secretRef references to the secret for ScaleIO user and other sensitive information. If this is not provided, Login operation will fail.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty.

Property	Type	Description
		Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].secret

Description

secret represents a secret that should populate this volume. More info: https://kubernetes.io/docs/concepts/storage/volumes#secret

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	defaultMode is Optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`items`	`array`	items If unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume

Property	Type	Description
		setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`optional`	`boolean`	optional field specify whether the Secret or its keys must be defined
`secretName`	`string`	secretName is the name of the secret in the pod's namespace to use. More info: https://kubernetes.io/docs/concepts/storage/volumes#secret ↗

.spec.workloads[].template.spec.volumes[].secret.items

Description

items If unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].secret.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].storageos

Description

storageOS represents a StorageOS volume attached and mounted on Kubernetes nodes.

Type

`object`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretRef`	`object`	secretRef specifies the secret to use for obtaining the StorageOS API credentials. If not specified, default values will be attempted.
`volumeName`	`string`	volumeName is the human-readable name of the StorageOS volume. Volume names are only unique within a namespace.
`volumeNamespace`	`string`	volumeNamespace specifies the scope of the volume within StorageOS. If no namespace is specified then the Pod's namespace will be used. This allows the Kubernetes name scoping to be mirrored within StorageOS for tighter integration. Set VolumeName to any name to override the default behaviour. Set to "default" if you are not using namespaces within StorageOS. Namespaces that do not pre-exist within StorageOS will be created.

.spec.workloads[].template.spec.volumes[].storageos.secretRef

Description

secretRef specifies the secret to use for obtaining the StorageOS API credentials. If not specified, default values will be attempted.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].vsphereVolume

Description

vsphereVolume represents a vSphere volume attached and mounted on kubelets host machine

Type

`object`

Required

`volumePath`

Property	Type	Description
`fsType`	`string`	fsType is filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`storagePolicyID`	`string`	storagePolicyID is the storage Policy Based Management (SPBM) profile ID associated with the StoragePolicyName.
`storagePolicyName`	`string`	storagePolicyName is the storage Policy Based Management (SPBM) profile name.
`volumePath`	`string`	volumePath is the path that identifies vSphere volume vmdk

.status

Description

ComponentStatus defines the observed state of Connector

Type

`object`

Property	Type	Description
`annotations`	`object`	Annotations is additional Status fields for the Resource to save some additional State as well as convey more information to the user. This is

Property	Type	Description
		roughly akin to Annotations on any k8s resource, just the reconciler conveying richer information outwards.
`conditions`	`array`	Conditions the latest available observations of a resource's current state.
`observedGeneration`	`integer`	ObservedGeneration is the 'Generation' of the Service that was last processed by the controller.

.status.annotations

Description

Annotations is additional Status fields for the Resource to save some additional State as well as convey more information to the user. This is roughly akin to Annotations on any k8s resource, just the reconciler conveying richer information outwards.

Type

`object`

.status.conditions

Description

Conditions the latest available observations of a resource's current state.

Type

`array`

.status.conditions[]

Description

Condition defines a readiness condition for a Knative resource. See: https://github.com/kubernetes/community/blob/master/contributors/devel/sig-architecture/api-conventions.md#typical-status-properties

Type

`object`

Required

`status` `type`

Property	Type	Description
`lastTransitionTime`	`string`	LastTransitionTime is the last time the condition transitioned from one status to another. We use VolatileTime in place of metav1.Time to exclude this from creating equality.Semantic differences (all other things held constant).
`message`	`string`	A human readable message indicating details about the transition.
`reason`	`string`	The reason for the condition's last transition.
`severity`	`string`	Severity with which to treat failures of this type of condition. When this is not specified, it defaults to Error.
`status`	`string`	Status of the condition, one of True, False, Unknown.

Property	Type	Description
`type`	`string`	Type of condition.

API Endpoints

The following API endpoints are available:

- `/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsmavens`
  - `DELETE`: delete collection of ConnectorsMaven
  - `GET`: list objects of kind ConnectorsMaven
  - `POST`: create a new ConnectorsMaven
- `/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsmavens/{name}`
  - `DELETE`: delete the specified ConnectorsMaven
  - `GET`: read the specified ConnectorsMaven
  - `PATCH`: partially update the specified ConnectorsMaven
  - `PUT`: replace the specified ConnectorsMaven
- `/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsmavens/{name}/status`
  - `GET`: read status of the specified ConnectorsMaven
  - `PATCH`: partially update status of the specified ConnectorsMaven
  - `PUT`: replace status of the specified ConnectorsMaven

/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsmavens

HTTP method

`DELETE`

Description

delete collection of ConnectorsMaven

HTTP responses

HTTP code	Response body
200 - OK	`Status↗` schema
401 - Unauthorized	Empty

HTTP method

`GET`

Description

list objects of kind ConnectorsMaven

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsMavenList` schema
401 - Unauthorized	Empty

HTTP method

`POST`

Description

create a new ConnectorsMaven

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further

Parameter	Type	Description
		processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
`body`	`ConnectorsMaven` schema	`application/json` formatted

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsMaven` schema
201 - Created	`ConnectorsMaven` schema
202 - Accepted	`ConnectorsMaven` schema
401 - Unauthorized	Empty

/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsmavens/{name}

HTTP method

`DELETE`

Description

delete the specified ConnectorsMaven

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

HTTP responses

HTTP code	Response body
200 - OK	`Status↗` schema
202 - Accepted	`Status↗` schema
401 - Unauthorized	Empty

HTTP method

`GET`

Description

read the specified ConnectorsMaven

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsMaven` schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update the specified ConnectorsMaven

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsMaven` schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace the specified ConnectorsMaven

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

Parameter	Type	Description
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
`body`	`ConnectorsMaven` schema	`application/json` formatted

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsMaven` schema
201 - Created	`ConnectorsMaven` schema
401 - Unauthorized	Empty

/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsmavens/{name}/status

HTTP method

`GET`

Description

read status of the specified ConnectorsMaven

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsMaven` schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update status of the specified ConnectorsMaven

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields.

Parameter	Type	Description
		This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsMaven` schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace status of the specified ConnectorsMaven

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object,

Parameter	Type	Description
		and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
`body`	`ConnectorsMaven` schema	`application/json` formatted

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsMaven` schema
201 - Created	`ConnectorsMaven` schema
401 - Unauthorized	Empty

ConnectorsOCI [operator.connectors.alauda.io/v1alpha1]

Description

ConnectorsOCI is the Schema for the ConnectorsOCIs API.

Type

`object`

Specification

Property	Type	Description
`apiVersion`	`string`	APIVersion defines the versioned schema of this representation of an object. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources ↗
`kind`	`string`	Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint the client submits requests to. Cannot be updated. In CamelCase. More info:

Property	Type	Description
		https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds ↗
`metadata`	`ObjectMeta` ↗	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
`spec`	`object`	ConnectorsOCISpec defines the desired state of ConnectorsOCI.
`status`	`object`	ComponentStatus defines the observed state of Connector

.spec

Description

ConnectorsOCISpec defines the desired state of ConnectorsOCI.

Type

`object`

Property	Type	Description
`additionalManifests`	`string`	A means to specify the additional manifests to install, eg: http://example.com/manifests.yaml ↗
`annotations`	`object`	Annotations overrides labels for the namespace and its template.

Property	Type	Description
`expose`	`object`	Expose defines the expose configuration for the connector
`labels`	`object`	Labels overrides labels for the namespace and its template.
`registry`	`string`	Registry overrides the default registry for the workloads. The registry is used to replace the prefix of the image. the image reference format is /:@.
`workloads`	`array`	Workloads overrides workloads configurations such as resources and replicas.

.spec.annotations

Description

Annotations overrides labels for the namespace and its template.

Type

`object`

.spec.expose

Description

Expose defines the expose configuration for the connector

Type

`object`

Required

`type`

Property	Type	Description
`domain`	`string`	Domain specifies the access domain for the connector service. Required when Type is Ingress or NodePort: • For Ingress: Set to your ingress domain (e.g., "connectors.example.com") • For NodePort: Set to your cluster node IP (e.g., "192.168.1.100")
`ingress`	`object`	Ingress configuration for external access via ingress controller. Required when Type is Ingress.
`nodePort`	`object`	NodePort configuration for external access via node port. Required when Type is NodePort.
`type`	`string`	Type specifies the exposure method for the OCI connector service. • ClusterIP: Internal cluster access only (default) • NodePort: Access via node IP and port from outside the cluster • Ingress: Access via ingress controller with domain name

.spec.expose.ingress

Description

Ingress configuration for external access via ingress controller. Required when Type is Ingress.

Type

`object`

Property	Type	Description
`ingressClassName`	`string`	IngressClassName specifies the ingress controller class to use. Leave empty to use the default ingress controller. eg: "nginx"
`secretName`	`string`	SecretName specifies the TLS secret for HTTPS access. Example: "connectors-tls-secret"

.spec.expose.nodePort

Description

NodePort configuration for external access via node port. Required when Type is NodePort.

Type

`object`

Property	Type	Description
`port`	`integer`	Port specifies the node port number for external access. Must be between 30000-32767 (Kubernetes node port range). Recommended: Use ports 30000-31000 to avoid conflicts. Example: 30080 for HTTP, 30443 for HTTPS

.spec.labels

Description

Labels overrides labels for the namespace and its template.

Type

`object`

.spec.workloads

Description

Workloads overrides workloads configurations such as resources and replicas.

Type

`array`

.spec.workloads[]

Description

WorkloadOverride overrides the workload configurations.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name is the name of the deployment to override.
`replicas`	`integer`	Number of desired pods. This is a pointer to distinguish between explicit zero and not specified. Defaults to 1.

Property	Type	Description
`template`	`object`	Template describes the pods that will be created. The only allowed template.spec.restartPolicy value is "Always".

.spec.workloads[].template

Description

Template describes the pods that will be created. The only allowed template.spec.restartPolicy value is "Always".

Type

`object`

Property	Type	Description
`metadata`	`ObjectMeta` ↗	Standard object's metadata. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#metadata ↗
`spec`	`object`	Specification of the desired behavior of the pod. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#spec-and-status ↗

.spec.workloads[].template.spec

Description

Specification of the desired behavior of the pod. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#spec-and-status

Type

`object`

Required

`containers`

Property	Type	Description
`activeDeadlineSeconds`	`integer`	Optional duration in seconds the pod may StartTime before the system will actively tr containers. Value must be a positive intege
`affinity`	`object`	If specified, the pod's scheduling constrain
`automountServiceAccountToken`	`boolean`	AutomountServiceAccountToken indicates be automatically mounted.
`containers`	`array`	List of containers belonging to the pod. Co removed. There must be at least one conta
`dnsConfig`	`object`	Specifies the DNS parameters of a pod. Pa to the generated DNS configuration based
`dnsPolicy`	`string`	Set DNS policy for the pod. Defaults to "Cl 'ClusterFirstWithHostNet', 'ClusterFirst', 'De in DNSConfig will be merged with the polic DNS options set along with hostNetwork, y to 'ClusterFirstWithHostNet'.

Property	Type	Description
`enableServiceLinks`	`boolean`	EnableServiceLinks indicates whether info injected into pod's environment variables, r Optional: Defaults to true.
`ephemeralContainers`	`array`	List of ephemeral containers run in this poc an existing pod to perform user-initiated ac cannot be specified when creating a pod, a the pod spec. In order to add an ephemera pod's ephemeralcontainers subresource.
`hostAliases`	`array`	HostAliases is an optional list of hosts and hosts file if specified.
`hostIPC`	`boolean`	Use the host's ipc namespace. Optional: D
`hostNetwork`	`boolean`	Host networking requested for this pod. Us option is set, the ports that will be used mu
`hostPID`	`boolean`	Use the host's pid namespace. Optional: D
`hostUsers`	`boolean`	Use the host's user namespace. Optional: present, the pod will be run in the host use needs a feature only available to the host u kernel module with CAP_SYS_MODULE. V created for the pod. Setting false is useful f vulnerabilities even allowing users to run th

Property	Type	Description
		having root privileges on the host. This fiel servers that enable the UserNamespacesS
`hostname`	`string`	Specifies the hostname of the Pod If not sp to a system-defined value.
`imagePullSecrets`	`array`	ImagePullSecrets is an optional list of refer namespace to use for pulling any of the im these secrets will be passed to individual p More info: https://kubernetes.io/docs/conce imagepullsecrets-on-a-pod ↗
`initContainers`	`array`	List of initialization containers belonging to order prior to containers being started. If ar considered to have failed and is handled a for an init container or normal container mu containers may not have Lifecycle actions, Startup probes. The resourceRequirements account during scheduling by finding the hi type, and then using the max of of that valu Limits are applied to init containers in a sim currently be added or removed. Cannot be https://kubernetes.io/docs/concepts/worklo

Property	Type	Description
`nodeName`	`string`	NodeName indicates in which node this po candidate for scheduling by the scheduler field is set, the kubelet for this node becom pod. This field should not be used to expre on a specific node. https://kubernetes.io/dc pod-node/#nodename↗
`nodeSelector`	`object`	NodeSelector is a selector which must be t which must match a node's labels for the p info: https://kubernetes.io/docs/concepts/c
`os`	`object`	Specifies the OS of the containers in the p restricted if this is set. If the OS field is set to linux, the following f securityContext.windowsOptions If the OS field is set to windows, following f • spec.hostPID • spec.hostIPC • spec.hostUsers • spec.securityContext.appArmorProfile • spec.securityContext.seLinuxOptions • spec.securityContext.seccompProfile • spec.securityContext.fsGroup • spec.securityContext.fsGroupChangeP • spec.securityContext.sysctls • spec.shareProcessNamespace

Property	Type	Description
		• spec.securityContext.runAsUser • spec.securityContext.runAsGroup • spec.securityContext.supplementalGrou • spec.securityContext.supplementalGrou • spec.containers[*].securityContext.appA • spec.containers[*].securityContext.seLi • spec.containers[*].securityContext.secc • spec.containers[*].securityContext.capa • spec.containers[*].securityContext.read • spec.containers[*].securityContext.privil • spec.containers[*].securityContext.allov • spec.containers[*].securityContext.proc • spec.containers[*].securityContext.runA • spec.containers[*].securityContext.runA
`overhead`	`object`	Overhead represents the resource overhea given RuntimeClass. This field will be auto RuntimeClass admission controller. If the F enabled, overhead must not be set in Pod admission controller will reject Pod create already set. If RuntimeClass is configured will be set to the value defined in the corres remain unset and treated as zero. More inf https://git.k8s.io/enhancements/keps/sig-n
`preemptionPolicy`	`string`	PreemptionPolicy is the Policy for preempt Never, PreemptLowerPriority. Defaults to F

Property	Type	Description
`priority`	`integer`	The priority value. Various system compon the pod. When Priority Admission Controlle setting this field. The admission controller PriorityClassName. The higher the value, t
`priorityClassName`	`string`	If specified, indicates the pod's priority. "sy critical" are two special keywords which inc former being the highest priority. Any other PriorityClass object with that name. If not s or zero if there is no default.
`readinessGates`	`array`	If specified, all readiness gates will be eval when all its containers are ready AND all c gates have status equal to "True" More inf https://git.k8s.io/enhancements/keps/sig-n
`resourceClaims`	`array`	ResourceClaims defines which ResourceC before the Pod is allowed to start. The reso containers which consume them by name. This is an alpha field and requires enablin feature gate. This field is immutable.

Property	Type	Description
`restartPolicy`	`string`	Restart policy for all containers within the p some contexts, only a subset of those valu More info: https://kubernetes.io/docs/conce lifecycle/#restart-policy ↗
`runtimeClassName`	`string`	RuntimeClassName refers to a RuntimeCl which should be used to run this pod. If no named class, the pod will not be run. If uns will be used, which is an implicit class with default runtime handler. More info: https://g node/585-runtime-class ↗
`schedulerName`	`string`	If specified, the pod will be dispatched by s pod will be dispatched by default schedule
`schedulingGates`	`array`	SchedulingGates is an opaque list of value the pod. If schedulingGates is not empty, tl state and the scheduler will not attempt to SchedulingGates can only be set at pod cr afterwards.
`securityContext`	`object`	SecurityContext holds pod-level security at settings. Optional: Defaults to empty. See t each field.

Property	Type	Description
`serviceAccount`	`string`	DeprecatedServiceAccount is a deprecate Deprecated: Use serviceAccountName ins
`serviceAccountName`	`string`	ServiceAccountName is the name of the S More info: https://kubernetes.io/docs/tasks service-account/ ↗
`setHostnameAsFQDN`	`boolean`	If true the pod's hostname will be configure leaf name (the default). In Linux containers hostname field of the kernel (the nodenam containers, this means setting the registry HKEY_LOCAL_MACHINE\SYSTEM\Curre to FQDN. If a pod does not have FQDN, th
`shareProcessNamespace`	`boolean`	Share a single process namespace betwee this is set containers will be able to view ar containers in the same pod, and the first pr assigned PID 1. HostPID and ShareProces Optional: Default to false.
`subdomain`	`string`	If specified, the fully qualified Pod hostnam pod will not have a domainname at all.
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need decreased in delete request. Value must b indicates stop immediately via the kill signa value is nil, the default grace period will be

Property	Type	Description
		duration in seconds after the processes ru signal and the time when the processes ar this value longer than the expected cleanu seconds.
`tolerations`	`array`	If specified, the pod's tolerations.
`topologySpreadConstraints`	`array`	TopologySpreadConstraints describes how across topology domains. Scheduler will sc the constraints. All topologySpreadConstra
`volumes`	`array`	List of volumes that can be mounted by co info: https://kubernetes.io/docs/concepts/st

.spec.workloads[].template.spec.affinity

Description

If specified, the pod's scheduling constraints

Type

`object`

Property	Type	Description
`nodeAffinity`	`object`	Describes node affinity scheduling rules for the pod.
`podAffinity`	`object`	Describes pod affinity scheduling rules (e.g. co-locate this pod in the same node, zone, etc. as some other

Property	Type	Description
		pod(s)).
`podAntiAffinity`	`object`	Describes pod anti-affinity scheduling rules (e.g. avoid putting this pod in the same node, zone, etc. as some other pod(s)).

.spec.workloads[].template.spec.affinity.nodeAffinity

Description

Describes node affinity scheduling rules for the pod.

Type

`object`

Property	Type	Description
`preferredDuringSchedulingIgnoredDuringExecution`	`array`	The scheduler will pr to schedule pods to nodes that satisfy the affinity expressions specified by this field, it may choose a node violates one or more the expressions. The node that is most preferred is the one v the greatest sum of weights, i.e. for each node that meets all o scheduling requireme (resource request, requiredDuringSched

Property	Type	Description
		affinity expressions, e compute a sum by iterating through the elements of this field adding "weight" to the sum if the node matc the corresponding matchExpressions; th node(s) with the high sum are the most preferred.
`requiredDuringSchedulingIgnoredDuringExecution`	`object`	If the affinity requirem specified by this field not met at scheduling time, the pod will not scheduled onto the n If the affinity requirem specified by this field cease to be met at so point during pod execution (e.g. due to update), the system r or may not try to eventually evict the p from its node.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node matches the corresponding matchExpressions; the node(s) with the highest sum are the most preferred.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

An empty preferred scheduling term matches all objects with implicit weight 0 (i.e. it's a no-op). A null preferred scheduling term matches no objects (i.e. is also a no-op).

Type

`object`

Required

`preference` `weight`

Property	Type	Description
`preference`	`object`	A node selector term, associated with the corresponding weight.
`weight`	`integer`	Weight associated with matching the corresponding nodeSelectorTerm, in the range 1-100.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference

Description

A node selector term, associated with the corresponding weight.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	A list of node selector requirements by node's labels.
`matchFields`	`array`	A list of node selector requirements by node's fields.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions

Description

A list of node selector requirements by node's labels.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is

Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields

Description

A list of node selector requirements by node's fields.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to an update), the system may or may not try to eventually evict the pod from its node.

Type

`object`

Required

`nodeSelectorTerms`

Property	Type	Description
`nodeSelectorTerms`	`array`	Required. A list of node selector terms. The terms are ORed.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms

Description

Required. A list of node selector terms. The terms are ORed.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[]

Description

A null or empty node selector term matches no objects. The requirements of them are ANDed. The TopologySelectorTerm type implements a subset of the NodeSelectorTerm.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	A list of node selector requirements by node's labels.
`matchFields`	`array`	A list of node selector requirements by node's fields.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions

Description

A list of node selector requirements by node's labels.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelect

orTerms[].matchExpressions[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields

Description

A list of node selector requirements by node's fields.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity

Description

Describes pod affinity scheduling rules (e.g. co-locate this pod in the same node, zone, etc. as some other pod(s)).

Type

`object`

Property	Type	Description
`preferredDuringSchedulingIgnoredDuringExecution`	`array`	The scheduler will pr to schedule pods to nodes that satisfy the affinity expressions specified by this field, it may choose a node violates one or more the expressions. The node that is most preferred is the one v the greatest sum of weights, i.e. for each node that meets all o

Property	Type	Description
		scheduling requireme (resource request, requiredDuringSched affinity expressions, e compute a sum by iterating through the elements of this field adding "weight" to the sum if the node has p which matches the corresponding podAffinityTerm; the node(s) with the high sum are the most preferred.
`requiredDuringSchedulingIgnoredDuringExecution`	`array`	If the affinity requirem specified by this field not met at scheduling time, the pod will not scheduled onto the n If the affinity requirem specified by this field cease to be met at so point during pod execution (e.g. due to pod label update), the system may or may n try to eventually evict pod from its node. Wh there are multiple elements, the lists of nodes corresponding each podAffinityTerm

Property	Type	Description
		intersected, i.e. all te must be satisfied.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node has pods which matches the corresponding podAffinityTerm; the node(s) with the highest sum are the most preferred.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

The weights of all of the matched WeightedPodAffinityTerm fields are added per-node to find the most preferred node(s)

Type

`object`

Required

`podAffinityTerm` `weight`

Property	Type	Description
`podAffinityTerm`	`object`	Required. A pod affinity term, associated with the corresponding weight.
`weight`	`integer`	weight associated with matching the corresponding podAffinityTerm, in the range 1-100.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm

Description

Required. A pod affinity term, associated with the corresponding weight.

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with

Property	Type	Description
		`labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null

Property	Type	Description
		or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinit

yTerm.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinit

yTerm.namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to a pod label update), the system may or may not try to eventually evict the pod from its node. When there are multiple elements, the lists of nodes corresponding to each podAffinityTerm are intersected, i.e. all terms must be satisfied.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[]

Description

Defines a set of pods (namely those matching the labelSelector relative to the given namespace(s)) that this pod should be co-located (affinity) or not co-located (anti-affinity) with, where co-located is defined as running on a node whose value of the label with key <topologyKey> matches that of any node on which a pod of the set of pods is running

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Property	Type	Description
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Property	Type	Description
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.

Property	Type	Description
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchL

abelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespac

eSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity

Description

Describes pod anti-affinity scheduling rules (e.g. avoid putting this pod in the same node, zone, etc. as some other pod(s)).

Type

`object`

Property	Type	Description
`preferredDuringSchedulingIgnoredDuringExecution`	`array`	The scheduler will pr to schedule pods to nodes that satisfy the anti-affinity expressio specified by this field, it may choose a node violates one or more the expressions. The node that is most preferred is the one w the greatest sum of weights, i.e. for each node that meets all o scheduling requireme (resource request, requiredDuringSched anti-affinity expressio etc.), compute a sum iterating through the elements of this field adding "weight" to the sum if the node has p

Property	Type	Description
		which matches the corresponding podAffinityTerm; the node(s) with the high sum are the most preferred.
`requiredDuringSchedulingIgnoredDuringExecution`	`array`	If the anti-affinity requirements specifie this field are not met scheduling time, the p will not be scheduled the node. If the anti-affinity requirements specified by this field cease to be met at sc point during pod execution (e.g. due to pod label update), the system may or may n try to eventually evict pod from its node. Wh there are multiple elements, the lists of nodes corresponding each podAffinityTerm intersected, i.e. all ter must be satisfied.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the anti-affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling anti-affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node has pods which matches the corresponding podAffinityTerm; the node(s) with the highest sum are the most preferred.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

The weights of all of the matched WeightedPodAffinityTerm fields are added per-node to find the most preferred node(s)

Type

`object`

Required

`podAffinityTerm` `weight`

Property	Type	Description
`podAffinityTerm`	`object`	Required. A pod affinity term, associated with the corresponding weight.
`weight`	`integer`	weight associated with matching the corresponding podAffinityTerm, in the range 1-100.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm

Description

Required. A pod affinity term, associated with the corresponding weight.

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Property	Type	Description
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Property	Type	Description
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAf

finityTerm.namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAf

finityTerm.namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the anti-affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the anti-affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to a pod label update), the system may or may not try to eventually evict the pod from its node. When there are multiple elements, the lists of nodes corresponding to each podAffinityTerm are intersected, i.e. all terms must be satisfied.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[]

Description

Defines a set of pods (namely those matching the labelSelector relative to the given namespace(s)) that this pod should be co-located (affinity) or not co-located (anti-affinity) with, where co-located is defined as running on a node whose value of the label with key <topologyKey> matches that of any node on which a pod of the set of pods is running

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Property	Type	Description
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Property	Type	Description
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.

Property	Type	Description
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismat

chLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].names

paceSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces[]

Type

`string`

.spec.workloads[].template.spec.containers

Description

List of containers belonging to the pod. Containers cannot currently be added or removed. There must be at least one container in a Pod. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[]

Description

A single application container that you want to run within a pod.

Type

`object`

Required

`name`

Property	Type	Description
`args`	`array`	Arguments to the entrypoint. The container imag if this is not provided. Variable references $(VAR expanded using the container's environment. If a be resolved, the reference in the input string will Double $$ are reduced to a single $, which allow the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" string literal "$(VAR_NAME)". Escaped reference expanded, regardless of whether the variable ex Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`command`	`array`	Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provi references $(VAR_NAME) are expanded using tl environment. If a variable cannot be resolved, th the input string will be unchanged. Double $$ are single $, which allows for escaping the $(VAR_N i.e. "$$(VAR_NAME)" will produce the string liter "$(VAR_NAME)". Escaped references will never regardless of whether the variable exists or not. updated. More info: https://kubernetes.io/docs/ta application/define-command-argument-container command-in-a-shell ↗
`env`	`array`	List of environment variables to set in the contair updated.
`envFrom`	`array`	List of sources to populate environment variables container. The keys defined within a source mus

Property	Type	Description
		C_IDENTIFIER. All invalid keys will be reported a when the container is starting. When a key exists sources, the value associated with the last sourc precedence. Values defined by an Env with a du take precedence. Cannot be updated.
`image`	`string`	Container image name. More info: https://kubernetes.io/docs/concepts/containers/ir field is optional to allow higher level config mana default or override container images in workload Deployments and StatefulSets.
`imagePullPolicy`	`string`	Image pull policy. One of Always, Never, IfNotPre to Always if :latest tag is specified, or IfNotPrese Cannot be updated. More info: https://kubernetes.io/docs/concepts/containers/ir images ↗
`lifecycle`	`object`	Actions that the management system should tak container lifecycle events. Cannot be updated.
`livenessProbe`	`object`	Periodic probe of container liveness. Container w the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`name`	`string`	Name of the container specified as a DNS_LABE container in a pod must have a unique name (DN

Property	Type	Description
		Cannot be updated.
`ports`	`array`	List of ports to expose from the container. Not sp here DOES NOT prevent that port from being ex which is listening on the default "0.0.0.0" address container will be accessible from the network. Mo array with strategic merge patch may corrupt the information See https://github.com/kubernetes/kubernetes/issues Cannot be updated.
`readinessProbe`	`object`	Periodic probe of container service readiness. Co removed from service endpoints if the probe fails updated. More info: https://kubernetes.io/docs/concepts/workloads/pc lifecycle#container-probes ↗
`resizePolicy`	`array`	Resources resize policy for the container.
`resources`	`object`	Compute Resources required by this container. C updated. More info: https://kubernetes.io/docs/concepts/configuration resources-containers/ ↗
`restartPolicy`	`string`	RestartPolicy defines the restart behavior of indiv in a pod. This field may only be set for init contai only allowed value is "Always". For non-init conta this field is not specified, the restart behavior is d

Property	Type	Description
		Pod's restart policy and the container type. Settir RestartPolicy as "Always" for the init container w following effect: this init container will be continua exit until all regular containers have terminated. (containers have completed, all init containers wit "Always" will be shut down. This lifecycle differs f containers and is often referred to as a "sidecar" Although this init container still starts in the init cc sequence, it does not wait for the container to co proceeding to the next init container. Instead, the container starts immediately after this init contair after any startupProbe has successfully complete
`securityContext`	`object`	SecurityContext defines the security options the be run with. If set, the fields of SecurityContext o equivalent fields of PodSecurityContext. More inf https://kubernetes.io/docs/tasks/configure-pod-container/security-context/ ↗
`startupProbe`	`object`	StartupProbe indicates that the Pod has success If specified, no other probes are executed until th successfully. If this probe fails, the Pod will be re the livenessProbe failed. This can be used to prc probe parameters at the beginning of a Pod's life might take a long time to load data or warm a ca steady-state operation. This cannot be updated. https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`stdin`	`boolean`	Whether this container should allocate a buffer fc container runtime. If this is not set, reads from st

Property	Type	Description
		container will always result in EOF. Default is fals
`stdinOnce`	`boolean`	Whether the container runtime should close the s after it has been opened by a single attach. Whe the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is oper start, is empty until the first client attaches to stdi remains open and accepts data until the client di which time stdin is closed and remains closed ur is restarted. If this flag is false, a container proce from stdin will never receive an EOF. Default is fa
`terminationMessagePath`	`string`	Optional: Path at which the file to which the conta termination message will be written is mounted i container's filesystem. Message written is intend final status, such as an assertion failure messag truncated by the node if greater than 4096 bytes. message length across all containers will be limit Defaults to /dev/termination-log. Cannot be upda
`terminationMessagePolicy`	`string`	Indicate how the termination message should be will use the contents of terminationMessagePath container status message on both success and f FallbackToLogsOnError will use the last chunk o output if the termination message file is empty ar exited with an error. The log output is limited to 2 lines, whichever is smaller. Defaults to File. Cann

Property	Type	Description
`tty`	`boolean`	Whether this container should allocate a TTY for requires 'stdin' to be true. Default is false.
`volumeDevices`	`array`	volumeDevices is the list of block devices to be u container.
`volumeMounts`	`array`	Pod volumes to mount into the container's filesys updated.
`workingDir`	`string`	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

.spec.workloads[].template.spec.containers[].args

Description

Arguments to the entrypoint. The container image's CMD is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.containers[].args[]

Type

`string`

.spec.workloads[].template.spec.containers[].command

Description

Entrypoint array. Not executed within a shell. The container image's ENTRYPOINT is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.containers[].command[]

Type

`string`

.spec.workloads[].template.spec.containers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the environment variable. Must be a C_IDENTIFIER.
`value`	`string`	Variable references $(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
`valueFrom`	`object`	Source for the environment variable's value. Cannot be used if value is not empty.

.spec.workloads[].template.spec.containers[].env[].valueFrom

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
`configMapKeyRef`	`object`	Selects a key of a ConfigMap.
`fieldRef`	`object`	Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
`secretKeyRef`	`object`	Selects a key of a secret in the pod's namespace

.spec.workloads[].template.spec.containers[].env[].valueFrom.configMapKeyRef

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key to select.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap or its key must be defined

.spec.workloads[].template.spec.containers[].env[].valueFrom.fieldRef

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.containers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"

Property	Type	Description
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.containers[].env[].valueFrom.secretKeyRef

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key of the secret to select from. Must be a valid secret key.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.containers[].envFrom

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].envFrom[]

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
`configMapRef`	`object`	The ConfigMap to select from
`prefix`	`string`	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
`secretRef`	`object`	The Secret to select from

.spec.workloads[].template.spec.containers[].envFrom[].configMapRef

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap must be defined

.spec.workloads[].template.spec.containers[].envFrom[].secretRef

Description

The Secret to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret must be defined

.spec.workloads[].template.spec.containers[].lifecycle

Description

Actions that the management system should take in response to container lifecycle events. Cannot be updated.

Type

`object`

Property	Type	Description
`postStart`	`object`	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
`preStop`	`object`	PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the

Property	Type	Description
		container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

.spec.workloads[].template.spec.containers[].lifecycle.postStart

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.

Property	Type	Description
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.postStart.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.

Property	Type	Description
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].lifecycle.postStart.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].lifecycle.preStop

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to

Property	Type	Description
		explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.preStop.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.preStop.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].livenessProbe

Description

Periodic probe of container liveness. Container will be restarted if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I

Property	Type	Description
		Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.containers[].livenessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].livenessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.containers[].livenessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].livenessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].livenessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].ports

Description

List of ports to expose from the container. Not specifying a port here DOES NOT prevent that port from being exposed. Any port which is listening on the default "0.0.0.0" address inside a container will be accessible from the network. Modifying this array with strategic merge patch may corrupt the data. For more information See https://github.com/kubernetes/kubernetes/issues/108255. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].ports[]

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
`containerPort`	`integer`	Number of port to expose on the pod's IP address. This must be a valid port number, 0 < x < 65536.
`hostIP`	`string`	What host IP to bind the external port to.
`hostPort`	`integer`	Number of port to expose on the host. If specified, this must be a valid port number, 0 < x < 65536. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
`name`	`string`	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
`protocol`	`string`	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

.spec.workloads[].template.spec.containers[].readinessProbe

Description

Periodic probe of container service readiness. Container will be removed from service endpoints if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu

Property	Type	Description
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the ti processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.containers[].readinessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].readinessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].readinessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].readinessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.containers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].readinessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].readinessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].readinessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].resizePolicy

Description

Resources resize policy for the container.

Type

`array`

.spec.workloads[].template.spec.containers[].resizePolicy[]

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName` `restartPolicy`

Property	Type	Description
`resourceName`	`string`	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.
`restartPolicy`	`string`	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

.spec.workloads[].template.spec.containers[].resources

Description

Compute Resources required by this container. Cannot be updated. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

Property	Type	Description
`claims`	`array`	Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.containers[].resources.claims

Description

Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.

Type

`array`

.spec.workloads[].template.spec.containers[].resources.claims[]

Description

ResourceClaim references one entry in PodSpec.ResourceClaims.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.
`request`	`string`	Request is the name chosen for a request in the referenced claim. If empty, everything from the claim is made available, otherwise only the result of this request.

.spec.workloads[].template.spec.containers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.containers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.containers[].securityContext

Description

SecurityContext defines the security options the container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext. More info: https://kubernetes.io/docs/tasks/configure-pod-container/security-context/

Type

`object`

Property	Type	Description
`allowPrivilegeEscalation`	`boolean`	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no_new_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1. run as Privileged 2. has CAP_SYS_ADMIN Note that this field cannot be set when spec.os.name is windows.
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.
`capabilities`	`object`	The capabilities to add/drop when running containers. Defaults to the default set of

Property	Type	Description
		capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.
`privileged`	`boolean`	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when spec.os.name is windows.
`procMount`	`string`	procMount denotes the type of proc mount to use for the containers. The default value is Default which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows.
`readOnlyRootFilesystem`	`boolean`	Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.containers[].securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.containers[].securityContext.capabilities

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`add`	`array`	Added capabilities

Property	Type	Description
`drop`	`array`	Removed capabilities

.spec.workloads[].template.spec.containers[].securityContext.capabilities.add

Description

Added capabilities

Type

`array`

.spec.workloads[].template.spec.containers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.containers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.workloads[].template.spec.containers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.containers[].securityContext.seLinuxOptions

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.

Property	Type	Description
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.containers[].securityContext.seccompProfile

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container

Property	Type	Description
		runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.containers[].securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same

Property	Type	Description
		effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.containers[].startupProbe

Description

StartupProbe indicates that the Pod has successfully initialized. If specified, no other probes are executed until this completes successfully. If this probe fails, the Pod will be restarted, just as if the livenessProbe failed. This can be used to provide different probe parameters at the beginning of a Pod's lifecycle, when it might take a long time to load data or warm a cache, than during steady-state operation. This cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.containers[].startupProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].startupProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].startupProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].startupProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.containers[].startupProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].startupProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].volumeDevices

Description

volumeDevices is the list of block devices to be used by the container.

Type

`array`

.spec.workloads[].template.spec.containers[].volumeDevices[]

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath` `name`

Property	Type	Description
`devicePath`	`string`	devicePath is the path inside of the container that the device will be mapped to.

Property	Type	Description
`name`	`string`	name must match the name of a persistentVolumeClaim in the pod

.spec.workloads[].template.spec.containers[].volumeMounts

Description

Pod volumes to mount into the container's filesystem. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].volumeMounts[]

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath` `name`

Property	Type	Description
`mountPath`	`string`	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
`mountPropagation`	`string`	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. When RecursiveReadOnly is set to IfPossible or to Enabled, MountPropagation must be None or unspecified (which defaults to None).
`name`	`string`	This must match the Name of a Volume.
`readOnly`	`boolean`	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
`recursiveReadOnly`	`string`	RecursiveReadOnly specifies whether read-only mounts should be handled recursively. If ReadOnly is false, this field has no meaning and must be unspecified. If ReadOnly is true, and this field is set to Disabled, the mount is not made recursively read-only. If this field is set to IfPossible, the mount is made recursively read-only, if it is supported by the container runtime. If this field is set to Enabled, the mount is made recursively read-only if it is supported by the container runtime, otherwise the pod will not be started and an error will be generated to indicate the reason. If this field is set to IfPossible or Enabled, MountPropagation must be set to None (or be

Property	Type	Description
		unspecified, which defaults to None). If this field is not specified, it is treated as an equivalent of Disabled.
`subPath`	`string`	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
`subPathExpr`	`string`	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references $(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

.spec.workloads[].template.spec.dnsConfig

Description

Specifies the DNS parameters of a pod. Parameters specified here will be merged to the generated DNS configuration based on DNSPolicy.

Type

`object`

Property	Type	Description
`nameservers`	`array`	A list of DNS name server IP addresses. This will be appended to the base nameservers generated from DNSPolicy. Duplicated nameservers will be removed.
`options`	`array`	A list of DNS resolver options. This will be merged with the base options generated from DNSPolicy. Duplicated entries will be removed. Resolution options given in Options will override those that appear in the base DNSPolicy.
`searches`	`array`	A list of DNS search domains for host-name lookup. This will be appended to the base search paths generated from DNSPolicy. Duplicated search paths will be removed.

.spec.workloads[].template.spec.dnsConfig.nameservers

Description

A list of DNS name server IP addresses. This will be appended to the base nameservers generated from DNSPolicy. Duplicated nameservers will be removed.

Type

`array`

.spec.workloads[].template.spec.dnsConfig.nameservers[]

Type

`string`

.spec.workloads[].template.spec.dnsConfig.options

Description

A list of DNS resolver options. This will be merged with the base options generated from DNSPolicy. Duplicated entries will be removed. Resolution options given in Options will override those that appear in the base DNSPolicy.

Type

`array`

.spec.workloads[].template.spec.dnsConfig.options[]

Description

PodDNSConfigOption defines DNS resolver options of a pod.

Type

`object`

Property	Type	Description
`name`	`string`	Required.
`value`	`string`	

.spec.workloads[].template.spec.dnsConfig.searches

Description

A list of DNS search domains for host-name lookup. This will be appended to the base search paths generated from DNSPolicy. Duplicated search paths will be removed.

Type

`array`

.spec.workloads[].template.spec.dnsConfig.searches[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers

Description

List of ephemeral containers run in this pod. Ephemeral containers may be run in an existing pod to perform user-initiated actions such as debugging. This list cannot be specified when creating a pod, and it cannot be modified by updating the pod spec. In order to add an ephemeral container to an existing pod, use the pod's ephemeralcontainers subresource.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[]

Description

An EphemeralContainer is a temporary container that you may add to an existing Pod for user-initiated activities such as debugging. Ephemeral containers have no resource or scheduling guarantees, and they will not be restarted when they exit or when a Pod is removed or restarted. The kubelet may evict a Pod if an ephemeral container causes the Pod to exceed its resource allocation. To add an ephemeral container, use the ephemeralcontainers subresource of an existing Pod. Ephemeral containers may not be removed or restarted.

Type

`object`

Required

`name`

Property	Type	Description
`args`	`array`	Arguments to the entrypoint. The image's CMD is not provided. Variable references $(VAR_NAME) using the container's environment. If a variable c

Property	Type	Description
		resolved, the reference in the input string will be Double $$ are reduced to a single $, which allow the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" string literal "$(VAR_NAME)". Escaped reference expanded, regardless of whether the variable ex Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`command`	`array`	Entrypoint array. Not executed within a shell. The ENTRYPOINT is used if this is not provided. Vari $(VAR_NAME) are expanded using the containe If a variable cannot be resolved, the reference in will be unchanged. Double $$ are reduced to a s allows for escaping the $(VAR_NAME) syntax: i. "$$(VAR_NAME)" will produce the string literal "$ Escaped references will never be expanded, reg whether the variable exists or not. Cannot be upd https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`env`	`array`	List of environment variables to set in the contair updated.

Property	Type	Description
`envFrom`	`array`	List of sources to populate environment variables container. The keys defined within a source must C_IDENTIFIER. All invalid keys will be reported a when the container is starting. When a key exists sources, the value associated with the last sourc precedence. Values defined by an Env with a du take precedence. Cannot be updated.
`image`	`string`	Container image name. More info: https://kubernetes.io/docs/concepts/containers/ir
`imagePullPolicy`	`string`	Image pull policy. One of Always, Never, IfNotPre to Always if :latest tag is specified, or IfNotPrese Cannot be updated. More info: https://kubernetes.io/docs/concepts/containers/ir images ↗
`lifecycle`	`object`	Lifecycle is not allowed for ephemeral containers
`livenessProbe`	`object`	Probes are not allowed for ephemeral containers
`name`	`string`	Name of the ephemeral container specified as a This name must be unique among all containers, and ephemeral containers.

Property	Type	Description
`ports`	`array`	Ports are not allowed for ephemeral containers.
`readinessProbe`	`object`	Probes are not allowed for ephemeral containers
`resizePolicy`	`array`	Resources resize policy for the container.
`resources`	`object`	Resources are not allowed for ephemeral contai containers use spare resources already allocate
`restartPolicy`	`string`	Restart policy for the container to manage the re each container within a pod. This may only be se containers. You cannot set this field on ephemer
`securityContext`	`object`	Optional: SecurityContext defines the security op ephemeral container should be run with. If set, th SecurityContext override the equivalent fields of PodSecurityContext.
`startupProbe`	`object`	Probes are not allowed for ephemeral containers
`stdin`	`boolean`	Whether this container should allocate a buffer fo container runtime. If this is not set, reads from st container will always result in EOF. Default is fals

Property	Type	Description
`stdinOnce`	`boolean`	Whether the container runtime should close the s after it has been opened by a single attach. Whe the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is oper start, is empty until the first client attaches to stdi remains open and accepts data until the client di which time stdin is closed and remains closed ur is restarted. If this flag is false, a container proce from stdin will never receive an EOF. Default is fa
`targetContainerName`	`string`	If set, the name of the container from PodSpec th ephemeral container targets. The ephemeral cor run in the namespaces (IPC, PID, etc) of this cor then the ephemeral container uses the namespa in the Pod spec. The container runtime must implement support fo the runtime does not support namespace targeti result of setting this field is undefined.
`terminationMessagePath`	`string`	Optional: Path at which the file to which the conta termination message will be written is mounted in container's filesystem. Message written is intend final status, such as an assertion failure messag truncated by the node if greater than 4096 bytes. message length across all containers will be limit Defaults to /dev/termination-log. Cannot be upda
`terminationMessagePolicy`	`string`	Indicate how the termination message should be will use the contents of terminationMessagePath

Property	Type	Description
		container status message on both success and f FallbackToLogsOnError will use the last chunk o output if the termination message file is empty ar exited with an error. The log output is limited to 2 lines, whichever is smaller. Defaults to File. Cann
`tty`	`boolean`	Whether this container should allocate a TTY for requires 'stdin' to be true. Default is false.
`volumeDevices`	`array`	volumeDevices is the list of block devices to be u container.
`volumeMounts`	`array`	Pod volumes to mount into the container's filesys mounts are not allowed for ephemeral containers updated.
`workingDir`	`string`	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

.spec.workloads[].template.spec.ephemeralContainers[].args

Description

Arguments to the entrypoint. The image's CMD is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e.

"$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].args[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].command

Description

Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the environment variable. Must be a C_IDENTIFIER.
`value`	`string`	Variable references $(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME)

Property	Type	Description
		syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
`valueFrom`	`object`	Source for the environment variable's value. Cannot be used if value is not empty.

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
`configMapKeyRef`	`object`	Selects a key of a ConfigMap.
`fieldRef`	`object`	Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Property	Type	Description
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
`secretKeyRef`	`object`	Selects a key of a secret in the pod's namespace

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.configMapKeyRef

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key to select.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap or its key must be defined

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.fieldRef

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.secretKeyRef

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key of the secret to select from. Must be a valid secret key.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.ephemeralContainers[].envFrom

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].envFrom[]

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
`configMapRef`	`object`	The ConfigMap to select from
`prefix`	`string`	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
`secretRef`	`object`	The Secret to select from

.spec.workloads[].template.spec.ephemeralContainers[].envFrom[].configMapRef

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap must be defined

.spec.workloads[].template.spec.ephemeralContainers[].envFrom[].secretRef

Description

The Secret to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret must be defined

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle

Description

Lifecycle is not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`postStart`	`object`	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
`preStop`	`object`	PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be

Property	Type	Description
		an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility.

Property	Type	Description
		There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.

Property	Type	Description
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when

tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.

Property	Type	Description
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru

Property	Type	Description
		pod are sent a termination signal and the ti processes are forcibly halted with a kill sigı value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceF gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root

Property	Type	Description
		('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].ports

Description

Ports are not allowed for ephemeral containers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].ports[]

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
`containerPort`	`integer`	Number of port to expose on the pod's IP address. This must be a valid port number, 0 < x < 65536.

Property	Type	Description
`hostIP`	`string`	What host IP to bind the external port to.
`hostPort`	`integer`	Number of port to expose on the host. If specified, this must be a valid port number, 0 < x < 65536. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
`name`	`string`	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
`protocol`	`string`	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].resizePolicy

Description

Resources resize policy for the container.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].resizePolicy[]

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName` `restartPolicy`

Property	Type	Description
`resourceName`	`string`	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.

Property	Type	Description
`restartPolicy`	`string`	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

.spec.workloads[].template.spec.ephemeralContainers[].resources

Description

Resources are not allowed for ephemeral containers. Ephemeral containers use spare resources already allocated to the pod.

Type

`object`

Property	Type	Description
`claims`	`array`	Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.ephemeralContainers[].resources.claims

Description

Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].resources.claims[]

Description

ResourceClaim references one entry in PodSpec.ResourceClaims.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.
`request`	`string`	Request is the name chosen for a request in the referenced claim. If empty, everything from the claim is made available, otherwise only the result of this request.

.spec.workloads[].template.spec.ephemeralContainers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.ephemeralContainers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext

Description

Optional: SecurityContext defines the security options the ephemeral container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext.

Type

`object`

Property	Type	Description
`allowPrivilegeEscalation`	`boolean`	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no_new_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1. run as Privileged 2. has CAP_SYS_ADMIN Note that this field cannot be set when spec.os.name is windows.
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.
`capabilities`	`object`	The capabilities to add/drop when running containers. Defaults to the default set of

Property	Type	Description
		capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.
`privileged`	`boolean`	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when spec.os.name is windows.
`procMount`	`string`	procMount denotes the type of proc mount to use for the containers. The default value is Default which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows.
`readOnlyRootFilesystem`	`boolean`	Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`add`	`array`	Added capabilities

Property	Type	Description
`drop`	`array`	Removed capabilities

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.add

Description

Added capabilities

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.seLinuxOptions

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.

Property	Type	Description
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.seccompProfile

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container

Property	Type	Description
		runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa ↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same

Property	Type	Description
		effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded.

Property	Type	Description
		Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the ti processes are forcibly halted with a kill sig value longer than the expected cleanup tim

Property	Type	Description
		process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceF gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to

Property	Type	Description
		explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.

Property	Type	Description
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].volumeDevices

Description

volumeDevices is the list of block devices to be used by the container.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].volumeDevices[]

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath` `name`

Property	Type	Description
`devicePath`	`string`	devicePath is the path inside of the container that the device will be mapped to.

Property	Type	Description
`name`	`string`	name must match the name of a persistentVolumeClaim in the pod

.spec.workloads[].template.spec.ephemeralContainers[].volumeMounts

Description

Pod volumes to mount into the container's filesystem. Subpath mounts are not allowed for ephemeral containers. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].volumeMounts[]

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath` `name`

Property	Type	Description
`mountPath`	`string`	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
`mountPropagation`	`string`	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. When RecursiveReadOnly is set to IfPossible or to Enabled, MountPropagation must be None or unspecified (which defaults to None).
`name`	`string`	This must match the Name of a Volume.
`readOnly`	`boolean`	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
`recursiveReadOnly`	`string`	RecursiveReadOnly specifies whether read-only mounts should be handled recursively. If ReadOnly is false, this field has no meaning and must be unspecified. If ReadOnly is true, and this field is set to Disabled, the mount is not made recursively read-only. If this field is set to IfPossible, the mount is made recursively read-only, if it is supported by the container runtime. If this field is set to Enabled, the mount is made recursively read-only if it is supported by the container runtime, otherwise the pod will not be started and an error will be generated to indicate the reason. If this field is set to IfPossible or Enabled, MountPropagation must be set to None (or be

Property	Type	Description
		unspecified, which defaults to None). If this field is not specified, it is treated as an equivalent of Disabled.
`subPath`	`string`	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
`subPathExpr`	`string`	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references $(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

.spec.workloads[].template.spec.hostAliases

Description

HostAliases is an optional list of hosts and IPs that will be injected into the pod's hosts file if specified.

Type

`array`

.spec.workloads[].template.spec.hostAliases[]

Description

HostAlias holds the mapping between IP and hostnames that will be injected as an entry in the pod's hosts file.

Type

`object`

Required

`ip`

Property	Type	Description
`hostnames`	`array`	Hostnames for the above IP address.
`ip`	`string`	IP address of the host file entry.

.spec.workloads[].template.spec.hostAliases[].hostnames

Description

Hostnames for the above IP address.

Type

`array`

.spec.workloads[].template.spec.hostAliases[].hostnames[]

Type

`string`

.spec.workloads[].template.spec.imagePullSecrets

Description

ImagePullSecrets is an optional list of references to secrets in the same namespace to use for pulling any of the images used by this PodSpec. If specified, these secrets will be passed to individual puller implementations for them to use. More info:

https://kubernetes.io/docs/concepts/containers/images#specifying-imagepullsecrets-on-a-pod

Type

`array`

.spec.workloads[].template.spec.imagePullSecrets[]

Description

LocalObjectReference contains enough information to let you locate the referenced object inside the same namespace.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.initContainers

Description

List of initialization containers belonging to the pod. Init containers are executed in order prior to containers being started. If any init container fails, the pod is considered to have failed and is handled according to its restartPolicy. The name for an init container or normal container must be unique among all containers. Init containers may not have Lifecycle actions, Readiness probes, Liveness probes, or Startup probes. The resourceRequirements of an init container are taken into account during scheduling by finding the highest request/limit for each resource type, and then using the max of of that value or the sum of the normal containers. Limits are applied to init containers in a similar fashion. Init

containers cannot currently be added or removed. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/init-containers/

Type

`array`

.spec.workloads[].template.spec.initContainers[]

Description

A single application container that you want to run within a pod.

Type

`object`

Required

`name`

Property	Type	Description
`args`	`array`	Arguments to the entrypoint. The container imag if this is not provided. Variable references $(VAR expanded using the container's environment. If a be resolved, the reference in the input string will Double $$ are reduced to a single $, which allow the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" string literal "$(VAR_NAME)". Escaped reference expanded, regardless of whether the variable ex Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`command`	`array`	Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provi references $(VAR_NAME) are expanded using tl environment. If a variable cannot be resolved, th

Property	Type	Description
		the input string will be unchanged. Double $$ are single $, which allows for escaping the $(VAR_N i.e. "$$(VAR_NAME)" will produce the string liter "$(VAR_NAME)". Escaped references will never regardless of whether the variable exists or not. updated. More info: https://kubernetes.io/docs/ta application/define-command-argument-container command-in-a-shell ↗
`env`	`array`	List of environment variables to set in the contair updated.
`envFrom`	`array`	List of sources to populate environment variables container. The keys defined within a source mus C_IDENTIFIER. All invalid keys will be reported a when the container is starting. When a key exists sources, the value associated with the last sourc precedence. Values defined by an Env with a du take precedence. Cannot be updated.
`image`	`string`	Container image name. More info: https://kubernetes.io/docs/concepts/containers/ir field is optional to allow higher level config mana default or override container images in workload Deployments and StatefulSets.
`imagePullPolicy`	`string`	Image pull policy. One of Always, Never, IfNotPre to Always if :latest tag is specified, or IfNotPrese Cannot be updated. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/containers/ir images ↗
`lifecycle`	`object`	Actions that the management system should tak container lifecycle events. Cannot be updated.
`livenessProbe`	`object`	Periodic probe of container liveness. Container w the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`name`	`string`	Name of the container specified as a DNS_LABE container in a pod must have a unique name (DN Cannot be updated.
`ports`	`array`	List of ports to expose from the container. Not sp here DOES NOT prevent that port from being ex which is listening on the default "0.0.0.0" address container will be accessible from the network. Mo array with strategic merge patch may corrupt the information See https://github.com/kubernetes/kubernetes/issues Cannot be updated.
`readinessProbe`	`object`	Periodic probe of container service readiness. Co removed from service endpoints if the probe fails updated. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`resizePolicy`	`array`	Resources resize policy for the container.
`resources`	`object`	Compute Resources required by this container. C updated. More info: https://kubernetes.io/docs/concepts/configuratior resources-containers/ ↗
`restartPolicy`	`string`	RestartPolicy defines the restart behavior of indiv in a pod. This field may only be set for init contai only allowed value is "Always". For non-init conta this field is not specified, the restart behavior is d Pod's restart policy and the container type. Settir RestartPolicy as "Always" for the init container w following effect: this init container will be continua exit until all regular containers have terminated. C containers have completed, all init containers wit "Always" will be shut down. This lifecycle differs f containers and is often referred to as a "sidecar" Although this init container still starts in the init co sequence, it does not wait for the container to co proceeding to the next init container. Instead, the container starts immediately after this init contair after any startupProbe has successfully complete
`securityContext`	`object`	SecurityContext defines the security options the be run with. If set, the fields of SecurityContext o equivalent fields of PodSecurityContext. More inf

Property	Type	Description
		https://kubernetes.io/docs/tasks/configure-pod-container/security-context/ ↗
`startupProbe`	`object`	StartupProbe indicates that the Pod has success If specified, no other probes are executed until th successfully. If this probe fails, the Pod will be re the livenessProbe failed. This can be used to pro probe parameters at the beginning of a Pod's life might take a long time to load data or warm a ca steady-state operation. This cannot be updated. https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`stdin`	`boolean`	Whether this container should allocate a buffer fo container runtime. If this is not set, reads from st container will always result in EOF. Default is fals
`stdinOnce`	`boolean`	Whether the container runtime should close the s after it has been opened by a single attach. Whe the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is oper start, is empty until the first client attaches to stdi remains open and accepts data until the client di which time stdin is closed and remains closed ur is restarted. If this flag is false, a container proce from stdin will never receive an EOF. Default is fa
`terminationMessagePath`	`string`	Optional: Path at which the file to which the conta termination message will be written is mounted i container's filesystem. Message written is intend

Property	Type	Description
		final status, such as an assertion failure messag truncated by the node if greater than 4096 bytes. message length across all containers will be limit Defaults to /dev/termination-log. Cannot be upda
`terminationMessagePolicy`	`string`	Indicate how the termination message should be will use the contents of terminationMessagePath container status message on both success and f FallbackToLogsOnError will use the last chunk o output if the termination message file is empty ar exited with an error. The log output is limited to 2 lines, whichever is smaller. Defaults to File. Cann
`tty`	`boolean`	Whether this container should allocate a TTY for requires 'stdin' to be true. Default is false.
`volumeDevices`	`array`	volumeDevices is the list of block devices to be u container.
`volumeMounts`	`array`	Pod volumes to mount into the container's filesys updated.
`workingDir`	`string`	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

.spec.workloads[].template.spec.initContainers[].args

Description

Arguments to the entrypoint. The container image's CMD is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.initContainers[].args[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].command

Description

Entrypoint array. Not executed within a shell. The container image's ENTRYPOINT is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.initContainers[].command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the environment variable. Must be a C_IDENTIFIER.
`value`	`string`	Variable references $(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input

Property	Type	Description
		string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
`valueFrom`	`object`	Source for the environment variable's value. Cannot be used if value is not empty.

.spec.workloads[].template.spec.initContainers[].env[].valueFrom

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
`configMapKeyRef`	`object`	Selects a key of a ConfigMap.
`fieldRef`	`object`	Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Property	Type	Description
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
`secretKeyRef`	`object`	Selects a key of a secret in the pod's namespace

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.configMapKeyRef

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key to select.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap or its key must be defined

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.fieldRef

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.secretKeyRef

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key of the secret to select from. Must be a valid secret key.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.initContainers[].envFrom

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].envFrom[]

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
`configMapRef`	`object`	The ConfigMap to select from
`prefix`	`string`	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
`secretRef`	`object`	The Secret to select from

.spec.workloads[].template.spec.initContainers[].envFrom[].configMapRef

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

Property	Type	Description
`optional`	`boolean`	Specify whether the ConfigMap must be defined

.spec.workloads[].template.spec.initContainers[].envFrom[].secretRef

Description

The Secret to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret must be defined

.spec.workloads[].template.spec.initContainers[].lifecycle

Description

Actions that the management system should take in response to container lifecycle events. Cannot be updated.

Type

`object`

Property	Type	Description
`postStart`	`object`	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
`preStop`	`object`	PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the

container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.

Property	Type	Description
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when

tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].livenessProbe

Description

Periodic probe of container liveness. Container will be restarted if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.

Property	Type	Description
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru

Property	Type	Description
		pod are sent a termination signal and the ti processes are forcibly halted with a kill sigı value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceF gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.initContainers[].livenessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root

Property	Type	Description
		('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].livenessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.initContainers[].livenessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].livenessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].livenessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].ports

Description

List of ports to expose from the container. Not specifying a port here DOES NOT prevent that port from being exposed. Any port which is listening on the default "0.0.0.0" address inside a container will be accessible from the network. Modifying this array with strategic merge patch may corrupt the data. For more information See https://github.com/kubernetes/kubernetes/issues/108255. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].ports[]

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
`containerPort`	`integer`	Number of port to expose on the pod's IP address. This must be a valid port number, 0 < x < 65536.

Property	Type	Description
`hostIP`	`string`	What host IP to bind the external port to.
`hostPort`	`integer`	Number of port to expose on the host. If specified, this must be a valid port number, 0 < x < 65536. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
`name`	`string`	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
`protocol`	`string`	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

.spec.workloads[].template.spec.initContainers[].readinessProbe

Description

Periodic probe of container service readiness. Container will be removed from service endpoints if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.initContainers[].readinesProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].readinesProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].readinesProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].readinesProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.initContainers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].readinesProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].readinesProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].readinessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].resizePolicy

Description

Resources resize policy for the container.

Type

`array`

.spec.workloads[].template.spec.initContainers[].resizePolicy[]

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName` `restartPolicy`

Property	Type	Description
`resourceName`	`string`	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.

Property	Type	Description
`restartPolicy`	`string`	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

.spec.workloads[].template.spec.initContainers[].resources

Description

Compute Resources required by this container. Cannot be updated. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

Property	Type	Description
`claims`	`array`	Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.initContainers[].resources.claims

Description

Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].resources.claims[]

Description

ResourceClaim references one entry in PodSpec.ResourceClaims.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.
`request`	`string`	Request is the name chosen for a request in the referenced claim. If empty, everything from the claim is made available, otherwise only the result of this request.

.spec.workloads[].template.spec.initContainers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.initContainers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.initContainers[].securityContext

Description

SecurityContext defines the security options the container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext. More info: https://kubernetes.io/docs/tasks/configure-pod-container/security-context/

Type

`object`

Property	Type	Description
`allowPrivilegeEscalation`	`boolean`	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no_new_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1. run as Privileged 2. has CAP_SYS_ADMIN Note that this field cannot be set when spec.os.name is windows.
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.
`capabilities`	`object`	The capabilities to add/drop when running containers. Defaults to the default set of

Property	Type	Description
		capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.
`privileged`	`boolean`	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when spec.os.name is windows.
`procMount`	`string`	procMount denotes the type of proc mount to use for the containers. The default value is Default which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows.
`readOnlyRootFilesystem`	`boolean`	Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.initContainers[].securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`add`	`array`	Added capabilities

Property	Type	Description
`drop`	`array`	Removed capabilities

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.add

Description

Added capabilities

Type

`array`

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.initContainers[].securityContext.seLinuxOptions

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.

Property	Type	Description
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.initContainers[].securityContext.seccompProfile

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container

Property	Type	Description
		runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.initContainers[].securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same

Property	Type	Description
		effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.initContainers[].startupProbe

Description

StartupProbe indicates that the Pod has successfully initialized. If specified, no other probes are executed until this completes successfully. If this probe fails, the Pod will be restarted, just as if the livenessProbe failed. This can be used to provide different probe parameters at the beginning of a Pod's lifecycle, when it might take a long time to load data or warm a cache, than during steady-state operation. This cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.initContainers[].startupProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].startupProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].startupProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].startupProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.initContainers[].startupProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].startupProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].volumeDevices

Description

volumeDevices is the list of block devices to be used by the container.

Type

`array`

.spec.workloads[].template.spec.initContainers[].volumeDevices[]

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath` `name`

Property	Type	Description
`devicePath`	`string`	devicePath is the path inside of the container that the device will be mapped to.

Property	Type	Description
`name`	`string`	name must match the name of a persistentVolumeClaim in the pod

.spec.workloads[].template.spec.initContainers[].volumeMounts

Description

Pod volumes to mount into the container's filesystem. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].volumeMounts[]

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath` `name`

Property	Type	Description
`mountPath`	`string`	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
`mountPropagation`	`string`	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. When RecursiveReadOnly is set to IfPossible or to Enabled, MountPropagation must be None or unspecified (which defaults to None).
`name`	`string`	This must match the Name of a Volume.
`readOnly`	`boolean`	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
`recursiveReadOnly`	`string`	RecursiveReadOnly specifies whether read-only mounts should be handled recursively. If ReadOnly is false, this field has no meaning and must be unspecified. If ReadOnly is true, and this field is set to Disabled, the mount is not made recursively read-only. If this field is set to IfPossible, the mount is made recursively read-only, if it is supported by the container runtime. If this field is set to Enabled, the mount is made recursively read-only if it is supported by the container runtime, otherwise the pod will not be started and an error will be generated to indicate the reason. If this field is set to IfPossible or Enabled, MountPropagation must be set to None (or be

Property	Type	Description
		unspecified, which defaults to None). If this field is not specified, it is treated as an equivalent of Disabled.
`subPath`	`string`	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
`subPathExpr`	`string`	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references $(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

.spec.workloads[].template.spec.nodeSelector

Description

NodeSelector is a selector which must be true for the pod to fit on a node. Selector which must match a node's labels for the pod to be scheduled on that node. More info: https://kubernetes.io/docs/concepts/configuration/assign-pod-node/

Type

`object`

.spec.workloads[].template.spec.os

Description

Specifies the OS of the containers in the pod. Some pod and container fields are restricted if this is set. If the OS field is set to linux, the following fields must be unset: - securityContext.windowsOptions If the OS field is set to windows, following fields must be unset: - spec.hostPID - spec.hostIPC - spec.hostUsers - spec.securityContext.appArmorProfile - spec.securityContext.seLinuxOptions - spec.securityContext.seccompProfile - spec.securityContext.fsGroup - spec.securityContext.fsGroupChangePolicy - spec.securityContext.sysctls - spec.shareProcessNamespace - spec.securityContext.runAsUser - spec.securityContext.runAsGroup - spec.securityContext.supplementalGroups - spec.securityContext.supplementalGroupsPolicy - spec.containers[*].securityContext.appArmorProfile - spec.containers[*].securityContext.seLinuxOptions - spec.containers[*].securityContext.seccompProfile - spec.containers[*].securityContext.capabilities - spec.containers[*].securityContext.readOnlyRootFilesystem - spec.containers[*].securityContext.privileged - spec.containers[*].securityContext.allowPrivilegeEscalation - spec.containers[*].securityContext.procMount - spec.containers[*].securityContext.runAsUser - spec.containers[*].securityContext.runAsGroup

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name is the name of the operating system. The currently supported values are linux and windows. Additional value may be defined in future and can be one of: https://github.com/opencontainers/runtime-spec/blob/master/config.md#platform-specific-configuration ↗ Clients should expect to handle additional values and treat unrecognized values in this field as os: null

.spec.workloads[].template.spec.overhead

Description

Overhead represents the resource overhead associated with running a pod for a given RuntimeClass. This field will be autopopulated at admission time by the RuntimeClass admission controller. If the RuntimeClass admission controller is enabled, overhead must not be set in Pod create requests. The RuntimeClass admission controller will reject Pod create requests which have the overhead already set. If RuntimeClass is configured and selected in the PodSpec, Overhead will be set to the value defined in the corresponding RuntimeClass, otherwise it will remain unset and treated as zero. More info: https://git.k8s.io/enhancements/keps/sig-node/688-pod-overhead/README.md

Type

`object`

.spec.workloads[].template.spec.readinessGates

Description

If specified, all readiness gates will be evaluated for pod readiness. A pod is ready when all its containers are ready AND all conditions specified in the readiness gates have status equal to "True" More info: https://git.k8s.io/enhancements/keps/sig-network/580-pod-readiness-gates

Type

`array`

.spec.workloads[].template.spec.readinessGates[]

Description

PodReadinessGate contains the reference to a pod condition

Type

`object`

Required

`conditionType`

Property	Type	Description
`conditionType`	`string`	ConditionType refers to a condition in the pod's condition list with matching type.

.spec.workloads[].template.spec.resourceClaims

Description

ResourceClaims defines which ResourceClaims must be allocated and reserved before the Pod is allowed to start. The resources will be made available to those containers which consume them by name. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable.

Type

`array`

.spec.workloads[].template.spec.resourceClaims[]

Description

PodResourceClaim references exactly one ResourceClaim, either directly or by naming a ResourceClaimTemplate which is then turned into a ResourceClaim for the pod. It adds a name to it that uniquely identifies the ResourceClaim inside the Pod. Containers that need access to the ResourceClaim reference it with this name.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name uniquely identifies this resource claim inside the pod. This must be a

Property	Type	Description
		DNS_LABEL.
`resourceClaimName`	`string`	ResourceClaimName is the name of a ResourceClaim object in the same namespace as this pod. Exactly one of ResourceClaimName and ResourceClaimTemplateName must be set.
`resourceClaimTemplateName`	`string`	ResourceClaimTemplateName is the name of a ResourceClaimTemplate object in the same namespace as this pod. The template will be used to create a new ResourceClaim, which will be bound to this pod. When this pod is deleted, the ResourceClaim will also be deleted. The pod name and resource name, along with a generated component, will be used to form a unique name for the ResourceClaim, which will be recorded in pod.status.resourceClaimStatuses. This field is immutable and no changes will be made to the corresponding ResourceClaim by the control plane after creating the ResourceClaim. Exactly one of ResourceClaimName and ResourceClaimTemplateName must be set.

.spec.workloads[].template.spec.schedulingGates

Description

SchedulingGates is an opaque list of values that if specified will block scheduling the pod. If schedulingGates is not empty, the pod will stay in the SchedulingGated state and the scheduler will not attempt to schedule the pod. SchedulingGates can only be set at pod creation time, and be removed only afterwards.

Type

`array`

.spec.workloads[].template.spec.schedulingGates[]

Description

PodSchedulingGate is associated to a Pod to guard its scheduling.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the scheduling gate. Each scheduling gate must have a unique name field.

.spec.workloads[].template.spec.securityContext

Description

SecurityContext holds pod-level security attributes and common container settings. Optional: Defaults to empty. See type description for default values of each field.

Type

`object`

Property	Type	Description
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.
`fsGroup`	`integer`	A special supplemental group that applies to all containers in a pod. Some volume types allow the Kubelet to change the ownership of that volume to be owned by the pod: 1. The owning GID will be the FSGroup 2. The setgid bit is set (new files created in the volume will be owned by FSGroup) 3. The permission bits are OR'd with rw-rw---- If unset, the Kubelet will not modify the ownership and permissions of any volume. Note that this field cannot be set when spec.os.name is windows.
`fsGroupChangePolicy`	`string`	fsGroupChangePolicy defines behavior of changing ownership and permission of the volume before being exposed inside Pod. This field will only apply to volume types which support fsGroup based ownership(and permissions). It will have no effect on ephemeral volume types such as: secret, configmaps and emptydir. Valid values are "OnRootMismatch" and

Property	Type	Description
		"Always". If not specified, "Always" is used. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that

Property	Type	Description
		container. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to all containers. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.
`supplementalGroups`	`array`	A list of groups applied to the first process run in each container, in addition to the container's primary GID and fsGroup (if specified). If the SupplementalGroupsPolicy feature is enabled, the supplementalGroupsPolicy field determines whether these are in addition to or instead of any group memberships defined in the container image. If unspecified, no additional groups are added, though group memberships defined in the container image may still be used, depending on the

Property	Type	Description
		supplementalGroupsPolicy field. Note that this field cannot be set when spec.os.name is windows.
`supplementalGroupsPolicy`	`string`	Defines how supplemental groups of the first container processes are calculated. Valid values are "Merge" and "Strict". If not specified, "Merge" is used. (Alpha) Using the field requires the SupplementalGroupsPolicy feature gate to be enabled and the container runtime must implement support for this feature. Note that this field cannot be set when spec.os.name is windows.
`sysctls`	`array`	Sysctls hold a list of namespaced sysctls used for the pod. Pods with unsupported sysctls (by the container runtime) might fail to launch. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options within a container's SecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.securityContext.seLinuxOptions

Description

The SELinux context to be applied to all containers. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in SecurityContext.

If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.securityContext.seccompProfile

Description

The seccomp options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.securityContext.supplementalGroups

Description

A list of groups applied to the first process run in each container, in addition to the container's primary GID and fsGroup (if specified). If the SupplementalGroupsPolicy feature is enabled, the supplementalGroupsPolicy field determines whether these are in addition to or instead of any group memberships defined in the container image. If unspecified, no additional groups are added, though group memberships defined in the container image may still be used, depending on the supplementalGroupsPolicy field. Note that this field cannot be set when spec.os.name is windows.

Type

`array`

.spec.workloads[].template.spec.securityContext.supplementalGroups[]

Type

`integer`

.spec.workloads[].template.spec.securityContext.sysctls

Description

Sysctls hold a list of namespaced sysctls used for the pod. Pods with unsupported sysctls (by the container runtime) might fail to launch. Note that this field cannot be set when spec.os.name is windows.

Type

`array`

.spec.workloads[].template.spec.securityContext.sysctls[]

Description

Sysctl defines a kernel parameter to be set

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	Name of a property to set
`value`	`string`	Value of a property to set

.spec.workloads[].template.spec.securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options within a container's SecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.

Property	Type	Description
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.tolerations

Description

If specified, the pod's tolerations.

Type

`array`

.spec.workloads[].template.spec.tolerations[]

Description

The pod this Toleration is attached to tolerates any taint that matches the triple <key,value,effect> using the matching operator <operator>.

Type

`object`

Property	Type	Description
`effect`	`string`	Effect indicates the taint effect to match. Empty means match all taint effects. When specified, allowed values are NoSchedule, PreferNoSchedule and NoExecute.
`key`	`string`	Key is the taint key that the toleration applies to. Empty means match all taint keys. If the key is empty, operator must be Exists; this combination means to match all values and all keys.
`operator`	`string`	Operator represents a key's relationship to the value. Valid operators are Exists and Equal. Defaults to Equal. Exists is equivalent to wildcard for value, so that a pod can tolerate all taints of a particular category.
`tolerationSeconds`	`integer`	TolerationSeconds represents the period of time the toleration (which must be of effect NoExecute, otherwise this field is ignored) tolerates the taint. By default, it is not set, which means tolerate the taint forever (do not evict). Zero and negative values will be treated as 0 (evict immediately) by the system.
`value`	`string`	Value is the taint value the toleration matches to. If the operator is Exists, the value should be empty, otherwise just a regular string.

.spec.workloads[].template.spec.topologySpreadConstraints

Description

TopologySpreadConstraints describes how a group of pods ought to spread across topology domains. Scheduler will schedule pods in a way which abides by the constraints. All topologySpreadConstraints are ANDed.

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[]

Description

TopologySpreadConstraint specifies how to spread matching pods among the given topology.

Type

`object`

Required

`maxSkew` `topologyKey` `whenUnsatisfiable`

Property	Type	Description
`labelSelector`	`object`	LabelSelector is used to find matching pods. Pods that match this label selector are counted to determine the number of pods in their corresponding topology domain.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select the pods over which spreading will be calculated. The keys are used to lookup values

Property	Type	Description
		from the incoming pod labels, those key-value labels are ANDed with labelSelector to select the group of existing pods over which spreading will be calculated for the incoming pod. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. MatchLabelKeys cannot be set when LabelSelector isn't set. Keys that don't exist in the incoming pod labels will be ignored. A null or empty list means only match against labelSelector. This is a beta field and requires the MatchLabelKeysInPodTopologySpread feature gate to be enabled (enabled by default).
`maxSkew`	`integer`	MaxSkew describes the degree to which pods may be unevenly distributed. When `whenUnsatisfiable=DoNotSchedule`, it is the maximum permitted difference between the number of matching pods in the target topology and the global minimum. The global minimum is the minimum number of matching pods in an eligible domain or zero if the number of eligible domains is less than MinDomains. For example, in a 3-zone cluster, MaxSkew is set to 1, and pods with the same labelSelector spread as 2/2/1: In this case, the global minimum is 1. | zone1 | zone2 | zone3 | | P P | P P | P | • if MaxSkew is 1, incoming pod can only be scheduled to zone3 to become 2/2/2; scheduling it onto zone1(zone2) would make the ActualSkew(3-1) on zone1(zone2) violate MaxSkew(1).

Property	Type	Description
		• if MaxSkew is 2, incoming pod can be scheduled onto any zone. When `whenUnsatisfiable=ScheduleAnyway`, it is used to give higher precedence to topologies that satisfy it. It's a required field. Default value is 1 and 0 is not allowed.

Property	Type	Description
`minDomains`	`integer`	MinDomains indicates a minimum number of eligible domains. When the number of eligible domains with matching topology keys is less than minDomains, Pod Topology Spread treats "global minimum" as 0, and then the calculation of Skew is performed. And when the number of eligible domains with matching topology keys equals or greater than minDomains, this value has no effect on scheduling. As a result, when the number of eligible domains is less than minDomains, scheduler won't schedule more than maxSkew Pods to those domains. If value is nil, the constraint behaves as if MinDomains is equal to 1. Valid values are integers greater than 0. When value is not nil, WhenUnsatisfiable must be DoNotSchedule. For example, in a 3-zone cluster, MaxSkew is set to 2, MinDomains is set to 5 and pods with the same labelSelector spread as 2/2/2: | zone1 | zone2 | zone3 | | P P | P P | P P | The number of domains is less than 5(MinDomains), so "global minimum" is treated as 0. In this situation, new pod with the same labelSelector cannot be scheduled, because computed skew will be 3(3 - 0) if new Pod is scheduled to any of the three zones, it will violate MaxSkew.
`nodeAffinityPolicy`	`string`	NodeAffinityPolicy indicates how we will treat Pod's nodeAffinity/nodeSelector when calculating pod topology spread skew. Options are:

Property	Type	Description
		• Honor: only nodes matching nodeAffinity/nodeSelector are included in the calculations. • Ignore: nodeAffinity/nodeSelector are ignored. All nodes are included in the calculations. If this value is nil, the behavior is equivalent to the Honor policy. This is a beta-level feature default enabled by the NodeInclusionPolicyInPodTopologySpread feature flag.
`nodeTaintsPolicy`	`string`	NodeTaintsPolicy indicates how we will treat node taints when calculating pod topology spread skew. Options are: • Honor: nodes without taints, along with tainted nodes for which the incoming pod has a toleration, are included. • Ignore: node taints are ignored. All nodes are included. If this value is nil, the behavior is equivalent to the Ignore policy. This is a beta-level feature default enabled by the NodeInclusionPolicyInPodTopologySpread feature flag.
`topologyKey`	`string`	TopologyKey is the key of node labels. Nodes that have a label with this key and identical values are considered to be in the same topology. We consider each <key, value> as a "bucket", and try to put balanced number of pods into each bucket.

Property	Type	Description
		We define a domain as a particular instance of a topology. Also, we define an eligible domain as a domain whose nodes meet the requirements of nodeAffinityPolicy and nodeTaintsPolicy. e.g. If TopologyKey is "kubernetes.io/hostname", each Node is a domain of that topology. And, if TopologyKey is "topology.kubernetes.io/zone", each zone is a domain of that topology. It's a required field.
`whenUnsatisfiable`	`string`	WhenUnsatisfiable indicates how to deal with a pod if it doesn't satisfy the spread constraint. • DoNotSchedule (default) tells the scheduler not to schedule it. • ScheduleAnyway tells the scheduler to schedule the pod in any location, but giving higher precedence to topologies that would help reduce the skew. A constraint is considered "Unsatisfiable" for an incoming pod if and only if every possible node assignment for that pod would violate "MaxSkew" on some topology. For example, in a 3-zone cluster, MaxSkew is set to 1, and pods with the same labelSelector spread as 3/1/1: | zone1 | zone2 | zone3 | | P P P | P | P | If WhenUnsatisfiable is set to DoNotSchedule, incoming pod can only be scheduled to zone2(zone3) to become 3/2/1(3/1/2) as ActualSkew(2-1) on zone2(zone3) satisfies MaxSkew(1). In other words, the cluster can still be imbalanced, but scheduler won't make it *more* imbalanced. It's a required field.

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector

Description

LabelSelector is used to find matching pods. Pods that match this label selector are counted to determine the number of pods in their corresponding topology domain.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.topologySpreadConstraints[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select the pods over which spreading will be calculated. The keys are used to lookup values from the incoming pod labels, those key-value labels are ANDed with labelSelector to select the group of existing pods over which spreading will be calculated for the incoming pod. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. MatchLabelKeys cannot be set when LabelSelector isn't set. Keys that don't exist in the incoming pod labels will be ignored. A null or empty list means only match against labelSelector. This is a beta field and requires the MatchLabelKeysInPodTopologySpread feature gate to be enabled (enabled by default).

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[].matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.volumes

Description

List of volumes that can be mounted by containers belonging to the pod. More info: https://kubernetes.io/docs/concepts/storage/volumes

Type

`array`

.spec.workloads[].template.spec.volumes[]

Description

Volume represents a named volume in a pod that may be accessed by any container in the pod.

Type

`object`

Required

`name`

Property	Type	Description
`awsElasticBlockStore`	`object`	awsElasticBlockStore represents an AWS Disk reso a kubelet's host machine and then exposed to the p https://kubernetes.io/docs/concepts/storage/volume ↗

Property	Type	Description
`azureDisk`	`object`	azureDisk represents an Azure Data Disk mount on mount to the pod.
`azureFile`	`object`	azureFile represents an Azure File Service mount or mount to the pod.
`cephfs`	`object`	cephFS represents a Ceph FS mount on the host tha lifetime
`cinder`	`object`	cinder represents a cinder volume attached and mou machine. More info: https://examples.k8s.io/mysql-c ↗
`configMap`	`object`	configMap represents a configMap that should popu
`csi`	`object`	csi (Container Storage Interface) represents epheme handled by certain external CSI drivers (Beta feature
`downwardAPI`	`object`	downwardAPI represents downward API about the p populate this volume

Property	Type	Description
`emptyDir`	`object`	emptyDir represents a temporary directory that shar More info: https://kubernetes.io/docs/concepts/stora ↗
`ephemeral`	`object`	ephemeral represents a volume that is handled by a The volume's lifecycle is tied to the pod that defines before the pod starts, and deleted when the pod is r Use this if: a) the volume is only needed while the p normal volumes like restoring from snapshot or capa needed, c) the storage driver is specified through a s the storage driver supports dynamic volume provisio PersistentVolumeClaim (see EphemeralVolumeSou information on the connection between this volume t PersistentVolumeClaim). Use PersistentVolumeClaim or one of the vendor-sp volumes that persist for longer than the lifecycle of a Use CSI for light-weight local ephemeral volumes if t meant to be used that way - see the documentation information. A pod can use both types of ephemeral volumes and at the same time.
`fc`	`object`	fc represents a Fibre Channel resource that is attach machine and then exposed to the pod.

Property	Type	Description
`flexVolume`	`object`	flexVolume represents a generic volume resource th provisioned/attached using an exec based plugin.
`flocker`	`object`	flocker represents a Flocker volume attached to a ku This depends on the Flocker control service being ru
`gcePersistentDisk`	`object`	gcePersistentDisk represents a GCE Disk resource kubelet's host machine and then exposed to the pod https://kubernetes.io/docs/concepts/storage/volumes
`gitRepo`	`object`	gitRepo represents a git repository at a particular rev GitRepo is deprecated. To provision a container with EmptyDir into an InitContainer that clones the repo u the EmptyDir into the Pod's container.
`glusterfs`	`object`	glusterfs represents a Glusterfs mount on the host th lifetime. More info: https://examples.k8s.io/volumes/ ↗
`hostPath`	`object`	hostPath represents a pre-existing file or directory o that is directly exposed to the container. This is gene agents or other privileged things that are allowed to Most containers will NOT need this. More info: https://kubernetes.io/docs/concepts/storage/volumes

Property	Type	Description
`image`	`object`	image represents an OCI object (a container image mounted on the kubelet's host machine. The volume startup depending on which PullPolicy value is provi • Always: the kubelet always attempts to pull the re creation will fail If the pull fails. • Never: the kubelet never pulls the reference and image or artifact. Container creation will fail if the present. • IfNotPresent: the kubelet pulls if the reference isr disk. Container creation will fail if the reference is pull fails. The volume gets re-resolved if the pod gets deleted means that new remote content will become availab failure to resolve or pull the image during pod startup from starting and may add significant latency. Failure normal volume backoff and will be reported on the p message. The types of objects that may be mounted defined by the container runtime implementation on minimum must include all valid types supported by tl field. The OCI object gets mounted in a single direct (spec.containers[*].volumeMounts.mountPath) by me *layers in the same way as for container images. The mounted read-only (ro) and non-executable files (no mounts for containers are not supported (spec.containers[*].volumeMounts.subpath). The field spec.securityContext.fsGroupChangePolicy has no type.

Property	Type	Description
`iscsi`	`object`	iscsi represents an ISCSI Disk resource that is attac machine and then exposed to the pod. More info: https://examples.k8s.io/volumes/iscsi/README.md ↗
`name`	`string`	name of the volume. Must be a DNS_LABEL and un More info: https://kubernetes.io/docs/concepts/overv objects/names/#names ↗
`nfs`	`object`	nfs represents an NFS mount on the host that share info: https://kubernetes.io/docs/concepts/storage/vol
`persistentVolumeClaim`	`object`	persistentVolumeClaimVolumeSource represents a r PersistentVolumeClaim in the same namespace. Mo https://kubernetes.io/docs/concepts/storage/persiste volumes#persistentvolumeclaims ↗
`photonPersistentDisk`	`object`	photonPersistentDisk represents a PhotonController attached and mounted on kubelets host machine
`portworxVolume`	`object`	portworxVolume represents a portworx volume attac kubelets host machine
`projected`	`object`	projected items for all in one resources secrets, conf downward API

Property	Type	Description
`quobyte`	`object`	quobyte represents a Quobyte mount on the host tha lifetime
`rbd`	`object`	rbd represents a Rados Block Device mount on the pod's lifetime. More info: https://examples.k8s.io/volumes/rbd/README.md ↗
`scaleIO`	`object`	scaleIO represents a ScaleIO persistent volume atta Kubernetes nodes.
`secret`	`object`	secret represents a secret that should populate this https://kubernetes.io/docs/concepts/storage/volumes
`storageos`	`object`	storageOS represents a StorageOS volume attache Kubernetes nodes.
`vsphereVolume`	`object`	vsphereVolume represents a vSphere volume attach kubelets host machine

.spec.workloads[].template.spec.volumes[].awsElasticBlockStore

Description

awsElasticBlockStore represents an AWS Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info:

https://kubernetes.io/docs/concepts/storage/volumes#awselasticblockstore

Type

`object`

Required

`volumeID`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type of the volume that you want to mou Ensure that the filesystem type is supported by the host operatir Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if ur More info: https://kubernetes.io/docs/concepts/storage/volumes#awselastic ↗
`partition`	`integer`	partition is the partition in the volume that you want to mount. If the default is to mount by volume name. Examples: For volume you specify the partition as "1". Similarly, the volume partition for is "0" (or you can leave the property empty).
`readOnly`	`boolean`	readOnly value true will force the readOnly setting in VolumeMo info: https://kubernetes.io/docs/concepts/storage/volumes#awselastic ↗
`volumeID`	`string`	volumeID is unique ID of the persistent disk resource in AWS (A EBS volume). More info: https://kubernetes.io/docs/concepts/storage/volumes#awselastic ↗

.spec.workloads[].template.spec.volumes[].azureDisk

Description

azureDisk represents an Azure Data Disk mount on the host and bind mount to the pod.

Type

`object`

Required

`diskName` `diskURI`

Property	Type	Description
`cachingMode`	`string`	cachingMode is the Host Caching mode: None, Read Only, Read Write.
`diskName`	`string`	diskName is the Name of the data disk in the blob storage
`diskURI`	`string`	diskURI is the URI of data disk in the blob storage
`fsType`	`string`	fsType is Filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`kind`	`string`	kind expected values are Shared: multiple blob disks per storage account Dedicated: single blob disk per storage account Managed: azure managed data disk (only in managed availability set). defaults to shared

Property	Type	Description
`readOnly`	`boolean`	readOnly Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.

.spec.workloads[].template.spec.volumes[].azureFile

Description

azureFile represents an Azure File Service mount on the host and bind mount to the pod.

Type

`object`

Required

`secretName` `shareName`

Property	Type	Description
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretName`	`string`	secretName is the name of secret that contains Azure Storage Account Name and Key
`shareName`	`string`	shareName is the azure share Name

.spec.workloads[].template.spec.volumes[].cephfs

Description

cephFS represents a Ceph FS mount on the host that shares a pod's lifetime

Type

`object`

Required

`monitors`

Property	Type	Description
`monitors`	`array`	monitors is Required: Monitors is a collection of Ceph monitors More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
`path`	`string`	path is Optional: Used as the mounted root, rather than the full Ceph tree, default is /
`readOnly`	`boolean`	readOnly is Optional: Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
`secretFile`	`string`	secretFile is Optional: SecretFile is the path to key ring for User, default is /etc/ceph/user.secret More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗

Property	Type	Description
`secretRef`	`object`	secretRef is Optional: SecretRef is reference to the authentication secret for User, default is empty. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
`user`	`string`	user is optional: User is the rados user name, default is admin More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗

.spec.workloads[].template.spec.volumes[].cephfs.monitors

Description

monitors is Required: Monitors is a collection of Ceph monitors More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it

Type

`array`

.spec.workloads[].template.spec.volumes[].cephfs.monitors[]

Type

`string`

.spec.workloads[].template.spec.volumes[].cephfs.secretRef

Description

secretRef is Optional: SecretRef is reference to the authentication secret for User, default is empty. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].cinder

Description

cinder represents a cinder volume attached and mounted on kubelets host machine. More info: https://examples.k8s.io/mysql-cinder-pd/README.md

Type

`object`

Required

`volumeID`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗
`secretRef`	`object`	secretRef is optional: points to a secret object containing parameters used to connect to OpenStack.
`volumeID`	`string`	volumeID used to identify the volume in cinder. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗

.spec.workloads[].template.spec.volumes[].cinder.secretRef

Description

secretRef is optional: points to a secret object containing parameters used to connect to OpenStack.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].configMap

Description

configMap represents a configMap that should populate this volume

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	defaultMode is optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`items`	`array`	items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified

Property	Type	Description
		paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	optional specify whether the ConfigMap or its keys must be defined

.spec.workloads[].template.spec.volumes[].configMap.items

Description

items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].configMap.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].csi

Description

csi (Container Storage Interface) represents ephemeral storage that is handled by certain external CSI drivers (Beta feature).

Type

`object`

Required

`driver`

Property	Type	Description
`driver`	`string`	driver is the name of the CSI driver that handles this volume. Consult with your admin for the correct name as registered in the cluster.
`fsType`	`string`	fsType to mount. Ex. "ext4", "xfs", "ntfs". If not provided, the empty value is passed to the associated CSI driver which will determine the default filesystem to apply.
`nodePublishSecretRef`	`object`	nodePublishSecretRef is a reference to the secret object containing sensitive information to pass to the CSI driver to complete the CSI NodePublishVolume and NodeUnpublishVolume calls. This field is optional, and may be empty if no secret is required. If the secret object contains more than one secret, all secret references are passed.
`readOnly`	`boolean`	readOnly specifies a read-only configuration for the volume. Defaults to false (read/write).

Property	Type	Description
`volumeAttributes`	`object`	volumeAttributes stores driver-specific properties that are passed to the CSI driver. Consult your driver's documentation for supported values.

.spec.workloads[].template.spec.volumes[].csi.nodePublishSecretRef

Description

nodePublishSecretRef is a reference to the secret object containing sensitive information to pass to the CSI driver to complete the CSI NodePublishVolume and NodeUnpublishVolume calls. This field is optional, and may be empty if no secret is required. If the secret object contains more than one secret, all secret references are passed.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].csi.volumeAttributes

Description

volumeAttributes stores driver-specific properties that are passed to the CSI driver. Consult your driver's documentation for supported values.

Type

`object`

.spec.workloads[].template.spec.volumes[].downwardAPI

Description

downwardAPI represents downward API about the pod that should populate this volume

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	Optional: mode bits to use on created files by default. Must be a Optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`items`	`array`	Items is a list of downward API volume file

.spec.workloads[].template.spec.volumes[].downwardAPI.items

Description

Items is a list of downward API volume file

Type

`array`

.spec.workloads[].template.spec.volumes[].downwardAPI.items[]

Description

DownwardAPIVolumeFile represents information to create the file containing the pod field

Type

`object`

Required

`path`

Property	Type	Description
`fieldRef`	`object`	Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.
`mode`	`integer`	Optional: mode bits used to set permissions on this file, must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.

Property	Type	Description
`path`	`string`	Required: Path is the relative path name of the file to be created. Must not be absolute or contain the '..' path. Must be utf-8 encoded. The first item of the relative path must not start with '..'
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

.spec.workloads[].template.spec.volumes[].downwardAPI.items[].fieldRef

Description

Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".

Property	Type	Description
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.volumes[].downwardAPI.items[].resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.volumes[].emptyDir

Description

emptyDir represents a temporary directory that shares a pod's lifetime. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir

Type

`object`

Property	Type	Description
`medium`	`string`	medium represents what type of storage medium should back this directory. The default is "" which means to use the node's default medium. Must be an empty string (default) or Memory. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir ↗
`sizeLimit`		sizeLimit is the total amount of local storage required for this EmptyDir volume. The size limit is also applicable for memory medium. The maximum usage on memory medium EmptyDir would be the minimum value between the SizeLimit specified here and the sum of memory limits of all containers in a pod. The default is nil which means that the limit is undefined. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir ↗

.spec.workloads[].template.spec.volumes[].ephemeral

Description

ephemeral represents a volume that is handled by a cluster storage driver. The volume's lifecycle is tied to the pod that defines it - it will be created before the pod starts, and deleted when the pod is removed. Use this if: a) the volume is only needed while the pod runs, b) features of normal volumes like restoring from snapshot or capacity tracking are needed, c) the storage driver is specified through a storage class, and d) the storage driver supports dynamic volume provisioning through a PersistentVolumeClaim (see

EphemeralVolumeSource for more information on the connection between this volume type and PersistentVolumeClaim). Use PersistentVolumeClaim or one of the vendor-specific APIs for volumes that persist for longer than the lifecycle of an individual pod. Use CSI for light-weight local ephemeral volumes if the CSI driver is meant to be used that way - see the documentation of the driver for more information. A pod can use both types of ephemeral volumes and persistent volumes at the same time.

Type

`object`

Property	Type	Description
`volumeClaimTemplate`	`object`	Will be used to create a stand-alone PVC to provision the volume. The pod in which this EphemeralVolumeSource is embedded will be the owner of the PVC, i.e. the PVC will be deleted together with the pod. The name of the PVC will be `<pod name>-<volume name>` where `<volume name>` is the name from the `PodSpec.Volumes` array entry. Pod validation will reject the pod if the concatenated name is not valid for a PVC (for example, too long). An existing PVC with that name that is not owned by the pod will *not* be used for the pod to avoid using an unrelated volume by mistake. Starting the pod is then blocked until the unrelated PVC is removed. If such a pre-created PVC is meant to be used by the pod, the PVC has to updated with an owner reference to the pod once the pod exists. Normally this should not be necessary, but it may be useful when manually reconstructing a broken cluster. This field is read-only and no changes will be made by Kubernetes to the PVC after it has been created.

Property	Type	Description
		Required, must not be nil.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate

Description

Will be used to create a stand-alone PVC to provision the volume. The pod in which this EphemeralVolumeSource is embedded will be the owner of the PVC, i.e. the PVC will be deleted together with the pod. The name of the PVC will be `<pod name>-<volume name>` where `<volume name>` is the name from the `PodSpec.Volumes` array entry. Pod validation will reject the pod if the concatenated name is not valid for a PVC (for example, too long). An existing PVC with that name that is not owned by the pod will *not* be used for the pod to avoid using an unrelated volume by mistake. Starting the pod is then blocked until the unrelated PVC is removed. If such a pre-created PVC is meant to be used by the pod, the PVC has to updated with an owner reference to the pod once the pod exists. Normally this should not be necessary, but it may be useful when manually reconstructing a broken cluster. This field is read-only and no changes will be made by Kubernetes to the PVC after it has been created. Required, must not be nil.

Type

`object`

Required

`spec`

Property	Type	Description
`metadata`	`ObjectMeta` ↗	May contain labels and annotations that will be copied into the PVC when creating it. No other fields are allowed and will be rejected during validation.

Property	Type	Description
`spec`	`object`	The specification for the PersistentVolumeClaim. The entire content is copied unchanged into the PVC that gets created from this template. The same fields as in a PersistentVolumeClaim are also valid here.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec

Description

The specification for the PersistentVolumeClaim. The entire content is copied unchanged into the PVC that gets created from this template. The same fields as in a PersistentVolumeClaim are also valid here.

Type

`object`

Property	Type	Description
`accessModes`	`array`	accessModes contains the desired access mod volume should have. More info: https://kubernetes.io/docs/concepts/storage/per volumes#access-modes-1 ↗
`dataSource`	`object`	dataSource field can be used to specify either: • An existing VolumeSnapshot object (snapshot.storage.k8s.io/VolumeSnapshot) • An existing PVC (PersistentVolumeClaim) If provisioner or an external controller can sup the specified data source, it will create a nev

Property	Type	Description
		volume based on the contents of the specifie source. When the AnyVolumeDataSource fe gate is enabled, dataSource contents will be to dataSourceRef, and dataSourceRef conte be copied to dataSource when dataSourceRef.namespace is not specified. namespace is specified, then dataSourceRe not be copied to dataSource.
`dataSourceRef`	`object`	dataSourceRef specifies the object from which populate the volume with data, if a non-empty v is desired. This may be any object from a non-e API group (non core object) or a PersistentVolumeClaim object. When this field i specified, volume binding will only succeed if th of the specified object matches some installed v populator or dynamic provisioner. This field will the functionality of the dataSource field and as both fields are non-empty, they must have the s value. For backwards compatibility, when name isn't specified in dataSourceRef, both fields (dataSource and dataSourceRef) will be set to t same value automatically if one of them is empt the other is non-empty. When namespace is sp in dataSourceRef, dataSource isn't set to the sa value and must be empty. There are three impo differences between dataSource and dataSourc • While dataSource only allows two specific ty objects, dataSourceRef allows any non-core as well as PersistentVolumeClaim objects. • While dataSource ignores disallowed values (dropping them), dataSourceRef preserves a

Property	Type	Description
		values, and generates an error if a disallowe value is specified. • While dataSource only allows local objects, dataSourceRef allows objects in any names (Beta) Using this field requires the AnyVolumeDataSource feature gate to be er (Alpha) Using the namespace field of dataSourceRef requires the CrossNamespaceVolumeDataSource featur to be enabled.
`resources`	`object`	resources represents the minimum resources th volume should have. If RecoverVolumeExpansionFailure feature is ena users are allowed to specify resource requireme that are lower than previous value but must still higher than capacity recorded in the status field claim. More info: https://kubernetes.io/docs/concepts/storage/per volumes#resources ↗
`selector`	`object`	selector is a label query over volumes to consid binding.
`storageClassName`	`string`	storageClassName is the name of the StorageC required by the claim. More info: https://kubernetes.io/docs/concepts/storage/per volumes#class-1 ↗

Property	Type	Description
`volumeAttributesClassName`	`string`	volumeAttributesClassName may be used to se VolumeAttributesClass used by this claim. If spe the CSI driver will create or update the volume attributes defined in the corresponding VolumeAttributesClass. This has a different pur than storageClassName, it can be changed afte claim is created. An empty string value means t VolumeAttributesClass will be applied to the cla it's not allowed to reset this field to empty string is set. If unspecified and the PersistentVolumeC unbound, the default VolumeAttributesClass wil by the persistentvolume controller if it exists. If t resource referred to by volumeAttributesClass d not exist, this PersistentVolumeClaim will be se Pending state, as reflected by the modifyVolum field, until such as a resource exists. More info: https://kubernetes.io/docs/concepts/storage/vol attributes-classes/↗ (Beta) Using this field requ the VolumeAttributesClass feature gate to be en (off by default).
`volumeMode`	`string`	volumeMode defines what type of volume is req by the claim. Value of Filesystem is implied whe included in claim spec.
`volumeName`	`string`	volumeName is the binding reference to the PersistentVolume backing this claim.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.accessModes

Description

accessModes contains the desired access modes the volume should have. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#access-modes-1

Type

`array`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.accessModes[]

Type

`string`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.dataSource

Description

dataSource field can be used to specify either: * An existing VolumeSnapshot object (snapshot.storage.k8s.io/VolumeSnapshot) * An existing PVC (PersistentVolumeClaim) If the provisioner or an external controller can support the specified data source, it will create a new volume based on the contents of the specified data source. When the AnyVolumeDataSource feature gate is enabled, dataSource contents will be copied to dataSourceRef, and dataSourceRef contents will be copied to dataSource when dataSourceRef.namespace is not specified. If the namespace is specified, then dataSourceRef will not be copied to dataSource.

Type

`object`

Required

`kind` `name`

Property	Type	Description
`apiGroup`	`string`	APIGroup is the group for the resource being referenced. If APIGroup is not specified, the specified Kind must be in the core API group. For any other third-party types, APIGroup is required.
`kind`	`string`	Kind is the type of resource being referenced
`name`	`string`	Name is the name of resource being referenced

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.dataSourceRef

Description

dataSourceRef specifies the object from which to populate the volume with data, if a non-empty volume is desired. This may be any object from a non-empty API group (non core object) or a PersistentVolumeClaim object. When this field is specified, volume binding will only succeed if the type of the specified object matches some installed volume populator or dynamic provisioner. This field will replace the functionality of the dataSource field and as such if both fields are non-empty, they must have the same value. For backwards compatibility, when namespace isn't specified in dataSourceRef, both fields (dataSource and dataSourceRef) will be set to the same value automatically if one of them is empty and the other is non-empty. When namespace is specified in dataSourceRef, dataSource isn't set to the same value and must be empty. There are three important differences between dataSource and dataSourceRef: * While dataSource only allows two specific types of objects, dataSourceRef allows any non-core object, as well as PersistentVolumeClaim objects. * While dataSource ignores disallowed values (dropping them), dataSourceRef preserves all values, and generates an error if a disallowed value is specified. * While dataSource only allows local objects, dataSourceRef allows objects in any namespaces. (Beta) Using this field requires the AnyVolumeDataSource feature gate to be enabled.

(Alpha) Using the namespace field of dataSourceRef requires the CrossNamespaceVolumeDataSource feature gate to be enabled.

Type

`object`

Required

`kind` `name`

Property	Type	Description
`apiGroup`	`string`	APIGroup is the group for the resource being referenced. If APIGroup is not specified, the specified Kind must be in the core API group. For any other third-party types, APIGroup is required.
`kind`	`string`	Kind is the type of resource being referenced
`name`	`string`	Name is the name of resource being referenced
`namespace`	`string`	Namespace is the namespace of resource being referenced Note that when a namespace is specified, a gateway.networking.k8s.io/ReferenceGrant object is required in the referent namespace to allow that namespace's owner to accept the reference. See the ReferenceGrant documentation for details. (Alpha) This field requires the CrossNamespaceVolumeDataSource feature gate to be enabled.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources

Description

resources represents the minimum resources the volume should have. If RecoverVolumeExpansionFailure feature is enabled users are allowed to specify resource requirements that are lower than previous value but must still be higher than capacity recorded in the status field of the claim. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#resources

Type

`object`

Property	Type	Description
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector

Description

selector is a label query over volumes to consider for binding.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.

Property	Type	Description
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.volumes[].fc

Description

fc represents a Fibre Channel resource that is attached to a kubelet's host machine and then exposed to the pod.

Type

`object`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`lun`	`integer`	lun is Optional: FC target lun number
`readOnly`	`boolean`	readOnly is Optional: Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in

Property	Type	Description
		VolumeMounts.
`targetWWNs`	`array`	targetWWNs is Optional: FC target worldwide names (WWNs)
`wwids`	`array`	wwids Optional: FC volume world wide identifiers (wwids) Either wwids or combination of targetWWNs and lun must be set, but not both simultaneously.

.spec.workloads[].template.spec.volumes[].fc.targetWWNs

Description

targetWWNs is Optional: FC target worldwide names (WWNs)

Type

`array`

.spec.workloads[].template.spec.volumes[].fc.targetWWNs[]

Type

`string`

.spec.workloads[].template.spec.volumes[].fc.wwids

Description

wwids Optional: FC volume world wide identifiers (wwids) Either wwids or combination of targetWWNs and lun must be set, but not both simultaneously.

Type

`array`

.spec.workloads[].template.spec.volumes[].fc.wwids[]

Type

`string`

.spec.workloads[].template.spec.volumes[].flexVolume

Description

flexVolume represents a generic volume resource that is provisioned/attached using an exec based plugin.

Type

`object`

Required

`driver`

Property	Type	Description
`driver`	`string`	driver is the name of the driver to use for this volume.
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". The default filesystem depends on FlexVolume script.
`options`	`object`	options is Optional: this field holds extra command options if any.

Property	Type	Description
`readOnly`	`boolean`	readOnly is Optional: defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretRef`	`object`	secretRef is Optional: secretRef is reference to the secret object containing sensitive information to pass to the plugin scripts. This may be empty if no secret object is specified. If the secret object contains more than one secret, all secrets are passed to the plugin scripts.

.spec.workloads[].template.spec.volumes[].flexVolume.options

Description

options is Optional: this field holds extra command options if any.

Type

`object`

.spec.workloads[].template.spec.volumes[].flexVolume.secretRef

Description

secretRef is Optional: secretRef is reference to the secret object containing sensitive information to pass to the plugin scripts. This may be empty if no secret object is specified. If the secret object contains more than one secret, all secrets are passed to the plugin scripts.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].flocker

Description

flocker represents a Flocker volume attached to a kubelet's host machine. This depends on the Flocker control service being running

Type

`object`

Property	Type	Description
`datasetName`	`string`	datasetName is Name of the dataset stored as metadata -> name on the dataset for Flocker should be considered as deprecated
`datasetUUID`	`string`	datasetUUID is the UUID of the dataset. This is unique identifier of a Flocker dataset

.spec.workloads[].template.spec.volumes[].gcePersistentDisk

Description

gcePersistentDisk represents a GCE Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersistentdisk

Type

`object`

Required

`pdName`

Property	Type	Description
`fsType`	`string`	fsType is filesystem type of the volume that you want to mount. Ensure that the filesystem type is supported by the host operatir system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "e unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗
`partition`	`integer`	partition is the partition in the volume that you want to mount. If omitted, the default is to mount by volume name. Examples: For volume /dev/sda1, you specify the partition as "1". Similarly, the partition for /dev/sda is "0" (or you can leave the property empty info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗
`pdName`	`string`	pdName is unique name of the PD resource in GCE. Used to ide the disk in GCE. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly here will force the ReadOnly setting in VolumeMounts Defaults to false. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗

.spec.workloads[].template.spec.volumes[].gitRepo

Description

gitRepo represents a git repository at a particular revision. DEPRECATED: GitRepo is deprecated. To provision a container with a git repo, mount an EmptyDir into an InitContainer that clones the repo using git, then mount the EmptyDir into the Pod's container.

Type

`object`

Required

`repository`

Property	Type	Description
`directory`	`string`	directory is the target directory name. Must not contain or start with '..'. If '.' is supplied, the volume directory will be the git repository. Otherwise, if specified, the volume will contain the git repository in the subdirectory with the given name.
`repository`	`string`	repository is the URL

Property	Type	Description
`revision`	`string`	revision is the commit hash for the specified revision.

.spec.workloads[].template.spec.volumes[].glusterfs

Description

glusterfs represents a Glusterfs mount on the host that shares a pod's lifetime. More info: https://examples.k8s.io/volumes/glusterfs/README.md

Type

`object`

Required

`endpoints` `path`

Property	Type	Description
`endpoints`	`string`	endpoints is the endpoint name that details Glusterfs topology. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗
`path`	`string`	path is the Glusterfs volume path. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly here will force the Glusterfs volume to be mounted with read-only permissions. Defaults to false. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗

.spec.workloads[].template.spec.volumes[].hostPath

Description

hostPath represents a pre-existing file or directory on the host machine that is directly exposed to the container. This is generally used for system agents or other privileged things that are allowed to see the host machine. Most containers will NOT need this. More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath

Type

`object`

Required

`path`

Property	Type	Description
`path`	`string`	path of the directory on the host. If the path is a symlink, it will follow the link to the real path. More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath ↗
`type`	`string`	type for HostPath Volume Defaults to "" More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath ↗

.spec.workloads[].template.spec.volumes[].image

Description

image represents an OCI object (a container image or artifact) pulled and mounted on the kubelet's host machine. The volume is resolved at pod startup depending on which PullPolicy value is provided: - Always: the kubelet always attempts to pull the reference. Container creation will fail If the pull fails. - Never: the kubelet never pulls the reference and only uses a local image or artifact. Container creation will fail if the reference isn't present. - IfNotPresent: the kubelet pulls if the reference isn't already present on disk. Container creation will fail if the reference isn't present and the pull fails. The volume gets re-resolved if the pod gets deleted and recreated, which means that new remote content will become available on pod recreation. A failure to resolve or pull the image during pod startup will block containers from starting and may add significant latency. Failures will be retried using normal volume backoff and will be reported on the pod reason and message. The types of objects that may be mounted by this volume are defined by the container runtime implementation on a host machine and at minimum must include all valid types supported by the container image field. The OCI object gets mounted in a single directory (spec.containers[*].volumeMounts.mountPath) by merging the manifest layers in the same way as for container images. The volume will be mounted read-only (ro) and non-executable files (noexec). Sub path mounts for containers are not supported (spec.containers[*].volumeMounts.subpath). The field spec.securityContext.fsGroupChangePolicy has no effect on this volume type.

Type

`object`

Property	Type	Description
`pullPolicy`	`string`	Policy for pulling OCI objects. Possible values are: Always: the kubelet always attempts to pull the reference. Container creation will fail If the pull fails. Never: the kubelet never pulls the reference and only uses a local image or artifact. Container creation will fail if the reference isn't present. IfNotPresent: the kubelet pulls if the reference isn't already present on disk. Container creation will fail if the reference isn't present and the pull fails. Defaults to Always if :latest tag is specified, or IfNotPresent otherwise.
`reference`	`string`	Required: Image or artifact reference to be used. Behaves in the same way as pod.spec.containers[*].image. Pull secrets will be assembled in the same way as for the container image by looking up node credentials, SA image pull secrets, and pod spec image pull secrets. More info: https://kubernetes.io/docs/concepts/containers/images ↗ This field is optional to allow higher level config management to default or override container images in workload controllers like Deployments and StatefulSets.

.spec.workloads[].template.spec.volumes[].iscsi

Description

iscsi represents an ISCSI Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info: https://examples.k8s.io/volumes/iscsi/README.md

Type

`object`

Required

`iqn` `lun` `targetPortal`

Property	Type	Description
`chapAuthDiscovery`	`boolean`	chapAuthDiscovery defines whether support iSCSI Discovery CHAP authentication
`chapAuthSession`	`boolean`	chapAuthSession defines whether support iSCSI Sessior CHAP authentication
`fsType`	`string`	fsType is the filesystem type of the volume that you want to mount. Tip: Ensure that the filesystem type is supporte by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#isc ↗
`initiatorName`	`string`	initiatorName is the custom iSCSI Initiator Name. If initiatorName is specified with iscsiInterface simultaneously, new iSCSI interface : will be created for the connection.
`iqn`	`string`	iqn is the target iSCSI Qualified Name.
`iscsiInterface`	`string`	iscsiInterface is the interface Name that uses an iSCSI transport. Defaults to 'default' (tcp).
`lun`	`integer`	lun represents iSCSI Target Lun number.

Property	Type	Description
`portals`	`array`	portals is the iSCSI Target Portal List. The portal is either an IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).
`readOnly`	`boolean`	readOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false.
`secretRef`	`object`	secretRef is the CHAP Secret for iSCSI target and initiato authentication
`targetPortal`	`string`	targetPortal is iSCSI Target Portal. The Portal is either ar IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).

.spec.workloads[].template.spec.volumes[].iscsi.portals

Description

portals is the iSCSI Target Portal List. The portal is either an IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).

Type

`array`

.spec.workloads[].template.spec.volumes[].iscsi.portals[]

Type

`string`

.spec.workloads[].template.spec.volumes[].iscsi.secretRef

Description

secretRef is the CHAP Secret for iSCSI target and initiator authentication

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].nfs

Description

nfs represents an NFS mount on the host that shares a pod's lifetime More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs

Type

`object`

Required

`path` `server`

Property	Type	Description
`path`	`string`	path that is exported by the NFS server. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly here will force the NFS export to be mounted with read-only permissions. Defaults to false. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗
`server`	`string`	server is the hostname or IP address of the NFS server. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗

.spec.workloads[].template.spec.volumes[].persistentVolumeClaim

Description

persistentVolumeClaimVolumeSource represents a reference to a PersistentVolumeClaim in the same namespace. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#persistentvolumeclaims

Type

`object`

Required

`claimName`

Property	Type	Description
`claimName`	`string`	claimName is the name of a PersistentVolumeClaim in the same namespace as the pod using this volume. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#persistentvolumeclaims ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly Will force the ReadOnly setting in VolumeMounts. Default false.

.spec.workloads[].template.spec.volumes[].photonPersistentDisk

Description

photonPersistentDisk represents a PhotonController persistent disk attached and mounted on kubelets host machine

Type

`object`

Required

`pdID`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`pdID`	`string`	pdID is the ID that identifies Photon Controller persistent disk

.spec.workloads[].template.spec.volumes[].portworxVolume

Description

portworxVolume represents a portworx volume attached and mounted on kubelets host machine

Type

`object`

Required

`volumeID`

Property	Type	Description
`fsType`	`string`	fSType represents the filesystem type to mount Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs". Implicitly inferred to be "ext4" if unspecified.
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`volumeID`	`string`	volumeID uniquely identifies a Portworx volume

.spec.workloads[].template.spec.volumes[].projected

Description

projected items for all in one resources secrets, configmaps, and downward API

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	defaultMode are the mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`sources`	`array`	sources is the list of volume projections. Each entry in this list handles one source.

.spec.workloads[].template.spec.volumes[].projected.sources

Description

sources is the list of volume projections. Each entry in this list handles one source.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[]

Description

Projection that may be projected along with other supported volume types. Exactly one of these fields must be set.

Type

`object`

Property	Type	Description
`clusterTrustBundle`	`object`	ClusterTrustBundle allows a pod to access the `.spec.trustBundle` field of ClusterTrustBundle objects in an auto-updating file. Alpha, gated by the ClusterTrustBundleProjection feature gate. ClusterTrustBundle objects can either be selected by name, or by the combination of signer name and a label selector. Kubelet performs aggressive normalization of the PEM contents written into the pod filesystem. Esoteric PEM features such as inter-block comments and block headers are stripped. Certificates are deduplicated. The ordering of certificates within the file is arbitrary, and Kubelet may change the order over time.
`configMap`	`object`	configMap information about the configMap data to project
`downwardAPI`	`object`	downwardAPI information about the downwardAPI data to project
`secret`	`object`	secret information about the secret data to project

Property	Type	Description
`serviceAccountToken`	`object`	serviceAccountToken is information about the serviceAccountToken data to project

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle

Description

ClusterTrustBundle allows a pod to access the `.spec.trustBundle` field of ClusterTrustBundle objects in an auto-updating file. Alpha, gated by the ClusterTrustBundleProjection feature gate. ClusterTrustBundle objects can either be selected by name, or by the combination of signer name and a label selector. Kubelet performs aggressive normalization of the PEM contents written into the pod filesystem. Esoteric PEM features such as inter-block comments and block headers are stripped. Certificates are deduplicated. The ordering of certificates within the file is arbitrary, and Kubelet may change the order over time.

Type

`object`

Required

`path`

Property	Type	Description
`labelSelector`	`object`	Select all ClusterTrustBundles that match this label selector. Only has effect if signerName is set. Mutually-exclusive with name. If unset, interpreted as "match nothing". If set but empty, interpreted as "match everything".

Property	Type	Description
`name`	`string`	Select a single ClusterTrustBundle by object name. Mutually-exclusive with signerName and labelSelector.
`optional`	`boolean`	If true, don't block pod startup if the referenced ClusterTrustBundle(s) aren't available. If using name, then the named ClusterTrustBundle is allowed not to exist. If using signerName, then the combination of signerName and labelSelector is allowed to match zero ClusterTrustBundles.
`path`	`string`	Relative path from the volume root to write the bundle.
`signerName`	`string`	Select all ClusterTrustBundles that match this signer name. Mutually-exclusive with name. The contents of all selected ClusterTrustBundles will be unified and deduplicated.

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector

Description

Select all ClusterTrustBundles that match this label selector. Only has effect if signerName is set. Mutually-exclusive with name. If unset, interpreted as "match nothing". If set but empty, interpreted as "match everything".

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.volumes[].projected.sources[].configMap

Description

configMap information about the configMap data to project

Type

`object`

Property	Type	Description
`items`	`array`	items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	optional specify whether the ConfigMap or its keys must be defined

.spec.workloads[].template.spec.volumes[].projected.sources[].configMap.items

Description

items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will

error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].configMap.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.

Property	Type	Description
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI

Description

downwardAPI information about the downwardAPI data to project

Type

`object`

Property	Type	Description
`items`	`array`	Items is a list of DownwardAPIVolume file

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items

Description

Items is a list of DownwardAPIVolume file

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items[]

Description

DownwardAPIVolumeFile represents information to create the file containing the pod field

Type

`object`

Required

`path`

Property	Type	Description
`fieldRef`	`object`	Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.
`mode`	`integer`	Optional: mode bits used to set permissions on this file, must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	Required: Path is the relative path name of the file to be created. Must not be absolute or contain the '..' path. Must be utf-8 encoded. The first item of the relative path must not start with '..'
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory,

Property	Type	Description
		requests.cpu and requests.memory) are currently supported.

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items[].fieldRef

Description

Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items[].resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.volumes[].projected.sources[].secret

Description

secret information about the secret data to project

Type

`object`

Property	Type	Description
`items`	`array`	items if unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified

Property	Type	Description
		paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	optional field specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.volumes[].projected.sources[].secret.items

Description

items if unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].secret.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].projected.sources[].serviceAccountToken

Description

serviceAccountToken is information about the serviceAccountToken data to project

Type

`object`

Required

`path`

Property	Type	Description
`audience`	`string`	audience is the intended audience of the token. A recipient of a token must identify itself with an identifier specified in the audience of the token, and otherwise should reject the token. The audience defaults to the identifier of the apiserver.
`expirationSeconds`	`integer`	expirationSeconds is the requested duration of validity of the service account token. As the token approaches expiration, the kubelet volume plugin will proactively rotate the service account token. The kubelet will start trying to rotate the token if the token is older than 80 percent of its time to live or if the token is older than 24 hours.Defaults to 1 hour and must be at least 10 minutes.
`path`	`string`	path is the path relative to the mount point of the file to project the token into.

.spec.workloads[].template.spec.volumes[].quobyte

Description

quobyte represents a Quobyte mount on the host that shares a pod's lifetime

Type

`object`

Required

`registry` `volume`

Property	Type	Description
`group`	`string`	group to map volume access to Default is no group
`readOnly`	`boolean`	readOnly here will force the Quobyte volume to be mounted with read-only permissions. Defaults to false.
`registry`	`string`	registry represents a single or multiple Quobyte Registry services specified as a string as host:port pair (multiple entries are separated with commas) which acts as the central registry for volumes
`tenant`	`string`	tenant owning the given Quobyte volume in the Backend Used with dynamically provisioned Quobyte volumes, value is set by the plugin
`user`	`string`	user to map volume access to Defaults to serivceaccount user
`volume`	`string`	volume is a string that references an already created Quobyte volume by name.

.spec.workloads[].template.spec.volumes[].rbd

Description

rbd represents a Rados Block Device mount on the host that shares a pod's lifetime. More info: https://examples.k8s.io/volumes/rbd/README.md

Type

`object`

Required

`image` `monitors`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type of the volume that you want to mount. Tip: Ensure that the filesystem type is supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#rbd ↗
`image`	`string`	image is the rados image name. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`keyring`	`string`	keyring is the path to key ring for RBDUser. Default is /etc/ceph/keyring. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗

Property	Type	Description
`monitors`	`array`	monitors is a collection of Ceph monitors. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`pool`	`string`	pool is the rados pool name. Default is rbd. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`readOnly`	`boolean`	readOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`secretRef`	`object`	secretRef is name of the authentication secret for RBDUser. If provided overrides keyring. Default is nil. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`user`	`string`	user is the rados user name. Default is admin. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗

.spec.workloads[].template.spec.volumes[].rbd.monitors

Description

monitors is a collection of Ceph monitors. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it

Type

`array`

.spec.workloads[].template.spec.volumes[].rbd.monitors[]

Type

`string`

.spec.workloads[].template.spec.volumes[].rbd.secretRef

Description

secretRef is name of the authentication secret for RBDUser. If provided overrides keyring. Default is nil. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].scaleIO

Description

scaleIO represents a ScaleIO persistent volume attached and mounted on Kubernetes nodes.

Type

`object`

Required

`gateway` `secretRef` `system`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Default is "xfs".
`gateway`	`string`	gateway is the host address of the ScaleIO API Gateway.
`protectionDomain`	`string`	protectionDomain is the name of the ScaleIO Protection Domain for the configured storage.
`readOnly`	`boolean`	readOnly Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretRef`	`object`	secretRef references to the secret for ScaleIO user and other sensitive information. If this is not provided, Login operation will fail.
`sslEnabled`	`boolean`	sslEnabled Flag enable/disable SSL communication with Gateway, default false

Property	Type	Description
`storageMode`	`string`	storageMode indicates whether the storage for a volume should be ThickProvisioned or ThinProvisioned. Default is ThinProvisioned.
`storagePool`	`string`	storagePool is the ScaleIO Storage Pool associated with the protection domain.
`system`	`string`	system is the name of the storage system as configured in ScaleIO.
`volumeName`	`string`	volumeName is the name of a volume already created in the ScaleIO system that is associated with this volume source.

.spec.workloads[].template.spec.volumes[].scaleIO.secretRef

Description

secretRef references to the secret for ScaleIO user and other sensitive information. If this is not provided, Login operation will fail.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty.

Property	Type	Description
		Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].secret

Description

secret represents a secret that should populate this volume. More info: https://kubernetes.io/docs/concepts/storage/volumes#secret

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	defaultMode is Optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`items`	`array`	items If unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume

Property	Type	Description
		setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`optional`	`boolean`	optional field specify whether the Secret or its keys must be defined
`secretName`	`string`	secretName is the name of the secret in the pod's namespace to use. More info: https://kubernetes.io/docs/concepts/storage/volumes#secret ↗

.spec.workloads[].template.spec.volumes[].secret.items

Description

items If unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].secret.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].storageos

Description

storageOS represents a StorageOS volume attached and mounted on Kubernetes nodes.

Type

`object`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretRef`	`object`	secretRef specifies the secret to use for obtaining the StorageOS API credentials. If not specified, default values will be attempted.
`volumeName`	`string`	volumeName is the human-readable name of the StorageOS volume. Volume names are only unique within a namespace.
`volumeNamespace`	`string`	volumeNamespace specifies the scope of the volume within StorageOS. If no namespace is specified then the Pod's namespace will be used. This allows the Kubernetes name scoping to be mirrored within StorageOS for tighter integration. Set VolumeName to any name to override the default behaviour. Set to "default" if you are not using namespaces within StorageOS. Namespaces that do not pre-exist within StorageOS will be created.

.spec.workloads[].template.spec.volumes[].storageos.secretRef

Description

secretRef specifies the secret to use for obtaining the StorageOS API credentials. If not specified, default values will be attempted.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].vsphereVolume

Description

vsphereVolume represents a vSphere volume attached and mounted on kubelets host machine

Type

`object`

Required

`volumePath`

Property	Type	Description
`fsType`	`string`	fsType is filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`storagePolicyID`	`string`	storagePolicyID is the storage Policy Based Management (SPBM) profile ID associated with the StoragePolicyName.
`storagePolicyName`	`string`	storagePolicyName is the storage Policy Based Management (SPBM) profile name.
`volumePath`	`string`	volumePath is the path that identifies vSphere volume vmdk

.status

Description

ComponentStatus defines the observed state of Connector

Type

`object`

Property	Type	Description
`annotations`	`object`	Annotations is additional Status fields for the Resource to save some additional State as well as convey more information to the user. This is

Property	Type	Description
		roughly akin to Annotations on any k8s resource, just the reconciler conveying richer information outwards.
`conditions`	`array`	Conditions the latest available observations of a resource's current state.
`observedGeneration`	`integer`	ObservedGeneration is the 'Generation' of the Service that was last processed by the controller.

.status.annotations

Description

Annotations is additional Status fields for the Resource to save some additional State as well as convey more information to the user. This is roughly akin to Annotations on any k8s resource, just the reconciler conveying richer information outwards.

Type

`object`

.status.conditions

Description

Conditions the latest available observations of a resource's current state.

Type

`array`

.status.conditions[]

Description

Condition defines a readiness condition for a Knative resource. See: https://github.com/kubernetes/community/blob/master/contributors/devel/sig-architecture/api-conventions.md#typical-status-properties

Type

`object`

Required

`status` `type`

Property	Type	Description
`lastTransitionTime`	`string`	LastTransitionTime is the last time the condition transitioned from one status to another. We use VolatileTime in place of metav1.Time to exclude this from creating equality.Semantic differences (all other things held constant).
`message`	`string`	A human readable message indicating details about the transition.
`reason`	`string`	The reason for the condition's last transition.
`severity`	`string`	Severity with which to treat failures of this type of condition. When this is not specified, it defaults to Error.
`status`	`string`	Status of the condition, one of True, False, Unknown.

Property	Type	Description
`type`	`string`	Type of condition.

API Endpoints

The following API endpoints are available:

- `/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsocis`
  - `DELETE`: delete collection of ConnectorsOCI
  - `GET`: list objects of kind ConnectorsOCI
  - `POST`: create a new ConnectorsOCI
- `/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsocis/{name}`
  - `DELETE`: delete the specified ConnectorsOCI
  - `GET`: read the specified ConnectorsOCI
  - `PATCH`: partially update the specified ConnectorsOCI
  - `PUT`: replace the specified ConnectorsOCI
- `/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsocis/{name}/status`
  - `GET`: read status of the specified ConnectorsOCI
  - `PATCH`: partially update status of the specified ConnectorsOCI
  - `PUT`: replace status of the specified ConnectorsOCI

/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsocis

HTTP method

`DELETE`

Description

delete collection of ConnectorsOCI

HTTP responses

HTTP code	Response body
200 - OK	`Status↗` schema
401 - Unauthorized	Empty

HTTP method

`GET`

Description

list objects of kind ConnectorsOCI

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsOCIList` schema
401 - Unauthorized	Empty

HTTP method

`POST`

Description

create a new ConnectorsOCI

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further

Parameter	Type	Description
		processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
`body`	`ConnectorsOCI` schema	`application/json` formatted

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsOCI` schema
201 - Created	`ConnectorsOCI` schema
202 - Accepted	`ConnectorsOCI` schema
401 - Unauthorized	Empty

/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsocis/{name}

HTTP method

`DELETE`

Description

delete the specified ConnectorsOCI

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

HTTP responses

HTTP code	Response body
200 - OK	`Status↗` schema
202 - Accepted	`Status↗` schema
401 - Unauthorized	Empty

HTTP method

`GET`

Description

read the specified ConnectorsOCI

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsOCI` schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update the specified ConnectorsOCI

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsOCI` schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace the specified ConnectorsOCI

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

Parameter	Type	Description
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
`body`	`ConnectorsOCI` schema	`application/json` formatted

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsOCI` schema
201 - Created	`ConnectorsOCI` schema
401 - Unauthorized	Empty

/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorsocis/{name}/status

HTTP method

`GET`

Description

read status of the specified ConnectorsOCI

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsOCI` schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update status of the specified ConnectorsOCI

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields.

Parameter	Type	Description
		This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsOCI` schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace status of the specified ConnectorsOCI

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object,

Parameter	Type	Description
		and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
`body`	`ConnectorsOCI` schema	`application/json` formatted

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsOCI` schema
201 - Created	`ConnectorsOCI` schema
401 - Unauthorized	Empty

ConnectorsPyPI [operator.connectors.alauda.io/v1alpha1]

Description

ConnectorsPyPI is the Schema for the ConnectorsPyPIs API.

Type

`object`

Specification

Property	Type	Description
`apiVersion`	`string`	APIVersion defines the versioned schema of this representation of an object. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources ↗
`kind`	`string`	Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint the client submits requests to. Cannot be updated. In CamelCase. More info:

Property	Type	Description
		https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds ↗
`metadata`	`ObjectMeta` ↗	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
`spec`	`object`	ConnectorsPyPISpec defines the desired state of ConnectorsPyPI.
`status`	`object`	ComponentStatus defines the observed state of Connector

.spec

Description

ConnectorsPyPISpec defines the desired state of ConnectorsPyPI.

Type

`object`

Property	Type	Description
`additionalManifests`	`string`	A means to specify the additional manifests to install, eg: http://example.com/manifests.yaml ↗
`annotations`	`object`	Annotations overrides labels for the namespace and its template.

Property	Type	Description
`labels`	`object`	Labels overrides labels for the namespace and its template.
`registry`	`string`	Registry overrides the default registry for the workloads. The registry is used to replace the prefix of the image. the image reference format is /:@.
`workloads`	`array`	Workloads overrides workloads configurations such as resources and replicas.

.spec.annotations

Description

Annotations overrides labels for the namespace and its template.

Type

`object`

.spec.labels

Description

Labels overrides labels for the namespace and its template.

Type

`object`

.spec.workloads

Description

Workloads overrides workloads configurations such as resources and replicas.

Type

`array`

.spec.workloads[]

Description

WorkloadOverride overrides the workload configurations.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name is the name of the deployment to override.
`replicas`	`integer`	Number of desired pods. This is a pointer to distinguish between explicit zero and not specified. Defaults to 1.
`template`	`object`	Template describes the pods that will be created. The only allowed template.spec.restartPolicy value is "Always".

.spec.workloads[].template

Description

Template describes the pods that will be created. The only allowed template.spec.restartPolicy value is "Always".

Type

`object`

Property	Type	Description
`metadata`	`ObjectMeta` ↗	Standard object's metadata. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#metadata ↗
`spec`	`object`	Specification of the desired behavior of the pod. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#spec-and-status ↗

.spec.workloads[].template.spec

Description

Specification of the desired behavior of the pod. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#spec-and-status

Type

`object`

Required

`containers`

Property	Type	Description
`activeDeadlineSeconds`	`integer`	Optional duration in seconds the pod may StartTime before the system will actively tr containers. Value must be a positive intege

Property	Type	Description
`affinity`	`object`	If specified, the pod's scheduling constrain
`automountServiceAccountToken`	`boolean`	AutomountServiceAccountToken indicates be automatically mounted.
`containers`	`array`	List of containers belonging to the pod. Co removed. There must be at least one conta
`dnsConfig`	`object`	Specifies the DNS parameters of a pod. Pa to the generated DNS configuration based
`dnsPolicy`	`string`	Set DNS policy for the pod. Defaults to "Cl 'ClusterFirstWithHostNet', 'ClusterFirst', 'De in DNSConfig will be merged with the polic DNS options set along with hostNetwork, y to 'ClusterFirstWithHostNet'.
`enableServiceLinks`	`boolean`	EnableServiceLinks indicates whether info injected into pod's environment variables, r Optional: Defaults to true.

Property	Type	Description
`ephemeralContainers`	`array`	List of ephemeral containers run in this poc an existing pod to perform user-initiated ac cannot be specified when creating a pod, a the pod spec. In order to add an ephemera pod's ephemeralcontainers subresource.
`hostAliases`	`array`	HostAliases is an optional list of hosts and hosts file if specified.
`hostIPC`	`boolean`	Use the host's ipc namespace. Optional: D
`hostNetwork`	`boolean`	Host networking requested for this pod. Us option is set, the ports that will be used mu
`hostPID`	`boolean`	Use the host's pid namespace. Optional: D
`hostUsers`	`boolean`	Use the host's user namespace. Optional: present, the pod will be run in the host use needs a feature only available to the host u kernel module with CAP_SYS_MODULE. V created for the pod. Setting false is useful f vulnerabilities even allowing users to run th having root privileges on the host. This fiel servers that enable the UserNamespacesS

Property	Type	Description
`hostname`	`string`	Specifies the hostname of the Pod If not sp to a system-defined value.
`imagePullSecrets`	`array`	ImagePullSecrets is an optional list of refer namespace to use for pulling any of the im these secrets will be passed to individual p More info: https://kubernetes.io/docs/conce imagepullsecrets-on-a-pod ↗
`initContainers`	`array`	List of initialization containers belonging to order prior to containers being started. If a considered to have failed and is handled a for an init container or normal container mu containers may not have Lifecycle actions, Startup probes. The resourceRequirement account during scheduling by finding the hi type, and then using the max of of that valu Limits are applied to init containers in a sim currently be added or removed. Cannot be https://kubernetes.io/docs/concepts/worklo
`nodeName`	`string`	NodeName indicates in which node this po candidate for scheduling by the scheduler field is set, the kubelet for this node becom pod. This field should not be used to expre on a specific node. https://kubernetes.io/dc pod-node/#nodename ↗

Property	Type	Description
`nodeSelector`	`object`	NodeSelector is a selector which must be t which must match a node's labels for the p info: https://kubernetes.io/docs/concepts/c
`os`	`object`	Specifies the OS of the containers in the p restricted if this is set. If the OS field is set to linux, the following f securityContext.windowsOptions If the OS field is set to windows, following f • spec.hostPID • spec.hostIPC • spec.hostUsers • spec.securityContext.appArmorProfile • spec.securityContext.seLinuxOptions • spec.securityContext.seccompProfile • spec.securityContext.fsGroup • spec.securityContext.fsGroupChangeP • spec.securityContext.sysctls • spec.shareProcessNamespace • spec.securityContext.runAsUser • spec.securityContext.runAsGroup • spec.securityContext.supplementalGrou • spec.securityContext.supplementalGrou • spec.containers[*].securityContext.appA • spec.containers[*].securityContext.seLi • spec.containers[*].securityContext.secc

Property	Type	Description
		• spec.containers[*].securityContext.capa • spec.containers[*].securityContext.read • spec.containers[*].securityContext.privil • spec.containers[*].securityContext.allov • spec.containers[*].securityContext.proc • spec.containers[*].securityContext.runA • spec.containers[*].securityContext.runA
`overhead`	`object`	Overhead represents the resource overhea given RuntimeClass. This field will be auto RuntimeClass admission controller. If the F enabled, overhead must not be set in Pod admission controller will reject Pod create already set. If RuntimeClass is configured will be set to the value defined in the corre remain unset and treated as zero. More inf https://git.k8s.io/enhancements/keps/sig-n
`preemptionPolicy`	`string`	PreemptionPolicy is the Policy for preempt Never, PreemptLowerPriority. Defaults to F
`priority`	`integer`	The priority value. Various system compon the pod. When Priority Admission Controlle setting this field. The admission controller PriorityClassName. The higher the value, t
`priorityClassName`	`string`	If specified, indicates the pod's priority. "sy critical" are two special keywords which inc

Property	Type	Description
		former being the highest priority. Any other PriorityClass object with that name. If not s or zero if there is no default.
`readinessGates`	`array`	If specified, all readiness gates will be eval when all its containers are ready AND all c gates have status equal to "True" More info https://git.k8s.io/enhancements/keps/sig-n
`resourceClaims`	`array`	ResourceClaims defines which ResourceC before the Pod is allowed to start. The resc containers which consume them by name. This is an alpha field and requires enablinç feature gate. This field is immutable.
`restartPolicy`	`string`	Restart policy for all containers within the p some contexts, only a subset of those valu More info: https://kubernetes.io/docs/conce lifecycle/#restart-policy ↗
`runtimeClassName`	`string`	RuntimeClassName refers to a RuntimeCl which should be used to run this pod. If no named class, the pod will not be run. If uns will be used, which is an implicit class with default runtime handler. More info: https://ç node/585-runtime-class ↗

Property	Type	Description
`schedulerName`	`string`	If specified, the pod will be dispatched by s pod will be dispatched by default schedule
`schedulingGates`	`array`	SchedulingGates is an opaque list of value the pod. If schedulingGates is not empty, tl state and the scheduler will not attempt to SchedulingGates can only be set at pod cr afterwards.
`securityContext`	`object`	SecurityContext holds pod-level security at settings. Optional: Defaults to empty. See t each field.
`serviceAccount`	`string`	DeprecatedServiceAccount is a deprecate Deprecated: Use serviceAccountName ins
`serviceAccountName`	`string`	ServiceAccountName is the name of the S More info: https://kubernetes.io/docs/tasks service-account/ ↗

Property	Type	Description
`setHostnameAsFQDN`	`boolean`	If true the pod's hostname will be configure leaf name (the default). In Linux containers hostname field of the kernel (the nodenam containers, this means setting the registry HKEY_LOCAL_MACHINE\SYSTEM\Curre to FQDN. If a pod does not have FQDN, th
`shareProcessNamespace`	`boolean`	Share a single process namespace betwee this is set containers will be able to view ar containers in the same pod, and the first pr assigned PID 1. HostPID and ShareProces Optional: Default to false.
`subdomain`	`string`	If specified, the fully qualified Pod hostnam pod will not have a domainname at all.
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need decreased in delete request. Value must b indicates stop immediately via the kill signa value is nil, the default grace period will be duration in seconds after the processes ru signal and the time when the processes ar this value longer than the expected cleanu seconds.
`tolerations`	`array`	If specified, the pod's tolerations.

Property	Type	Description
`topologySpreadConstraints`	`array`	TopologySpreadConstraints describes how across topology domains. Scheduler will sc the constraints. All topologySpreadConstra
`volumes`	`array`	List of volumes that can be mounted by co info: https://kubernetes.io/docs/concepts/st

.spec.workloads[].template.spec.affinity

Description

If specified, the pod's scheduling constraints

Type

`object`

Property	Type	Description
`nodeAffinity`	`object`	Describes node affinity scheduling rules for the pod.
`podAffinity`	`object`	Describes pod affinity scheduling rules (e.g. co-locate this pod in the same node, zone, etc. as some other pod(s)).
`podAntiAffinity`	`object`	Describes pod anti-affinity scheduling rules (e.g. avoid putting this pod in the same node, zone, etc. as some other pod(s)).

.spec.workloads[].template.spec.affinity.nodeAffinity

Description

Describes node affinity scheduling rules for the pod.

Type

`object`

Property	Type	Description
`preferredDuringSchedulingIgnoredDuringExecution`	`array`	The scheduler will pr to schedule pods to nodes that satisfy the affinity expressions specified by this field, it may choose a node violates one or more the expressions. The node that is most preferred is the one w the greatest sum of weights, i.e. for each node that meets all o scheduling requireme (resource request, requiredDuringSched affinity expressions, e compute a sum by iterating through the elements of this field adding "weight" to the sum if the node matc the corresponding matchExpressions; th node(s) with the high

Property	Type	Description
		sum are the most preferred.
`requiredDuringSchedulingIgnoredDuringExecution`	`object`	If the affinity requirem specified by this field not met at scheduling time, the pod will not scheduled onto the n If the affinity requirem specified by this field cease to be met at sc point during pod execution (e.g. due tc update), the system r or may not try to eventually evict the p from its node.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node matches the corresponding matchExpressions; the node(s) with the highest sum are the most preferred.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

An empty preferred scheduling term matches all objects with implicit weight 0 (i.e. it's a no-op). A null preferred scheduling term matches no objects (i.e. is also a no-op).

Type

`object`

Required

`preference` `weight`

Property	Type	Description
`preference`	`object`	A node selector term, associated with the corresponding weight.
`weight`	`integer`	Weight associated with matching the corresponding nodeSelectorTerm, in the range 1-100.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference

Description

A node selector term, associated with the corresponding weight.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	A list of node selector requirements by node's labels.
`matchFields`	`array`	A list of node selector requirements by node's fields.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions

Description

A list of node selector requirements by node's labels.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preferenc

e.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields

Description

A list of node selector requirements by node's fields.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.

Property	Type	Description
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to an update), the system may or may not try to eventually evict the pod from its node.

Type

`object`

Required

`nodeSelectorTerms`

Property	Type	Description
`nodeSelectorTerms`	`array`	Required. A list of node selector terms. The terms are ORed.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms

Description

Required. A list of node selector terms. The terms are ORed.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelect

orTerms[]

Description

A null or empty node selector term matches no objects. The requirements of them are ANDed. The TopologySelectorTerm type implements a subset of the NodeSelectorTerm.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	A list of node selector requirements by node's labels.
`matchFields`	`array`	A list of node selector requirements by node's fields.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions

Description

A list of node selector requirements by node's labels.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields

Description

A list of node selector requirements by node's fields.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields[]

Description

A node selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	The label key that the selector applies to.
`operator`	`string`	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
`values`	`array`	An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields[].values

Description

An array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. If the operator is Gt or Lt, the values array must have a single element, which will be interpreted as an integer. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelect

orTerms[].matchFields[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity

Description

Describes pod affinity scheduling rules (e.g. co-locate this pod in the same node, zone, etc. as some other pod(s)).

Type

`object`

Property	Type	Description
`preferredDuringSchedulingIgnoredDuringExecution`	`array`	The scheduler will pr to schedule pods to nodes that satisfy the affinity expressions specified by this field, it may choose a node violates one or more the expressions. The node that is most preferred is the one v the greatest sum of weights, i.e. for each node that meets all o scheduling requireme (resource request, requiredDuringSched affinity expressions, e compute a sum by iterating through the elements of this field

Property	Type	Description
		adding "weight" to the sum if the node has p which matches the corresponding podAffinityTerm; the node(s) with the high sum are the most preferred.
`requiredDuringSchedulingIgnoredDuringExecution`	`array`	If the affinity requirem specified by this field not met at scheduling time, the pod will not scheduled onto the n If the affinity requirem specified by this field cease to be met at so point during pod execution (e.g. due to pod label update), the system may or may n try to eventually evict pod from its node. Wh there are multiple elements, the lists of nodes corresponding each podAffinityTerm intersected, i.e. all ter must be satisfied.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node has pods which matches the corresponding podAffinityTerm; the node(s) with the highest sum are the most preferred.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

The weights of all of the matched WeightedPodAffinityTerm fields are added per-node to find the most preferred node(s)

Type

`object`

Required

`podAffinityTerm` `weight`

Property	Type	Description
`podAffinityTerm`	`object`	Required. A pod affinity term, associated with the corresponding weight.

Property	Type	Description
`weight`	`integer`	weight associated with matching the corresponding podAffinityTerm, in the range 1-100.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm

Description

Required. A pod affinity term, associated with the corresponding weight.

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod

Property	Type	Description
		labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Property	Type	Description
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinit

yTerm.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinit

yTerm.namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to a pod label update), the system may or may not try to eventually evict the pod from its node. When there are multiple elements, the lists of nodes corresponding to each podAffinityTerm are intersected, i.e. all terms must be satisfied.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[]

Description

Defines a set of pods (namely those matching the labelSelector relative to the given namespace(s)) that this pod should be co-located (affinity) or not co-located (anti-affinity) with, where co-located is defined as running on a node whose value of the label with key <topologyKey> matches that of any node on which a pod of the set of pods is running

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Property	Type	Description
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Property	Type	Description
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.

Property	Type	Description
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchL

abelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespac

eSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity

Description

Describes pod anti-affinity scheduling rules (e.g. avoid putting this pod in the same node, zone, etc. as some other pod(s)).

Type

`object`

Property	Type	Description
`preferredDuringSchedulingIgnoredDuringExecution`	`array`	The scheduler will pr to schedule pods to nodes that satisfy the anti-affinity expressio specified by this field, it may choose a node violates one or more the expressions. The node that is most preferred is the one v the greatest sum of weights, i.e. for each node that meets all o scheduling requireme (resource request, requiredDuringSched anti-affinity expressio etc.), compute a sum iterating through the elements of this field adding "weight" to the sum if the node has p

Property	Type	Description
		which matches the corresponding podAffinityTerm; the node(s) with the high sum are the most preferred.
`requiredDuringSchedulingIgnoredDuringExecution`	`array`	If the anti-affinity requirements specifie this field are not met scheduling time, the p will not be scheduled the node. If the anti-affinity requirements specified by this field cease to be met at sc point during pod execution (e.g. due to pod label update), the system may or may n try to eventually evict pod from its node. Wh there are multiple elements, the lists of nodes corresponding each podAffinityTerm intersected, i.e. all ter must be satisfied.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution

Description

The scheduler will prefer to schedule pods to nodes that satisfy the anti-affinity expressions specified by this field, but it may choose a node that violates one or more of the expressions. The node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of the scheduling requirements (resource request, requiredDuringScheduling anti-affinity expressions, etc.), compute a sum by iterating through the elements of this field and adding "weight" to the sum if the node has pods which matches the corresponding podAffinityTerm; the node(s) with the highest sum are the most preferred.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[]

Description

The weights of all of the matched WeightedPodAffinityTerm fields are added per-node to find the most preferred node(s)

Type

`object`

Required

`podAffinityTerm` `weight`

Property	Type	Description
`podAffinityTerm`	`object`	Required. A pod affinity term, associated with the corresponding weight.
`weight`	`integer`	weight associated with matching the corresponding podAffinityTerm, in the range 1-100.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm

Description

Required. A pod affinity term, associated with the corresponding weight.

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Property	Type	Description
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Property	Type	Description
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAf

finityTerm.namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAf

finityTerm.namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution

Description

If the anti-affinity requirements specified by this field are not met at scheduling time, the pod will not be scheduled onto the node. If the anti-affinity requirements specified by this field cease to be met at some point during pod execution (e.g. due to a pod label update), the system may or may not try to eventually evict the pod from its node. When there are multiple elements, the lists of nodes corresponding to each podAffinityTerm are intersected, i.e. all terms must be satisfied.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[]

Description

Defines a set of pods (namely those matching the labelSelector relative to the given namespace(s)) that this pod should be co-located (affinity) or not co-located (anti-affinity) with, where co-located is defined as running on a node whose value of the label with key <topologyKey> matches that of any node on which a pod of the set of pods is running

Type

`object`

Required

`topologyKey`

Property	Type	Description
`labelSelector`	`object`	A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Property	Type	Description
`mismatchLabelKeys`	`array`	MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).
`namespaceSelector`	`object`	A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.
`namespaces`	`array`	namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Property	Type	Description
`topologyKey`	`string`	This pod should be co-located (affinity) or not co-located (anti-affinity) with the pods matching the labelSelector in the specified namespaces, where co-located is defined as running on a node whose value of the label with key topologyKey matches that of any node on which any of the selected pods is running. Empty topologyKey is not allowed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector

Description

A label query over a set of resources, in this case pods. If it's null, this PodAffinityTerm matches with no Pods.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.

Property	Type	Description
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key in (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both matchLabelKeys and labelSelector. Also, matchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismat

chLabelKeys

Description

MismatchLabelKeys is a set of pod label keys to select which pods will be taken into consideration. The keys are used to lookup values from the incoming pod labels, those key-value labels are merged with `labelSelector` as `key notin (value)` to select the group of existing pods which pods will be taken into consideration for the incoming pod's pod (anti) affinity. Keys that don't exist in the incoming pod labels will be ignored. The default value is empty. The same key is forbidden to exist in both mismatchLabelKeys and labelSelector. Also, mismatchLabelKeys cannot be set when labelSelector isn't set. This is a beta field and requires enabling MatchLabelKeysInPodAffinity feature gate (enabled by default).

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].mismatchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector

Description

A label query over the set of namespaces that the term applies to. The term is applied to the union of the namespaces selected by this field and the ones listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].names

paceSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces

Description

namespaces specifies a static list of namespace names that the term applies to. The term is applied to the union of the namespaces listed in this field and the ones selected by namespaceSelector. null or empty namespaces list and null namespaceSelector means "this pod's namespace".

Type

`array`

.spec.workloads[].template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces[]

Type

`string`

.spec.workloads[].template.spec.containers

Description

List of containers belonging to the pod. Containers cannot currently be added or removed. There must be at least one container in a Pod. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[]

Description

A single application container that you want to run within a pod.

Type

`object`

Required

`name`

Property	Type	Description
`args`	`array`	Arguments to the entrypoint. The container imag if this is not provided. Variable references $(VAR expanded using the container's environment. If a be resolved, the reference in the input string will Double $$ are reduced to a single $, which allow the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" string literal "$(VAR_NAME)". Escaped reference expanded, regardless of whether the variable ex Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`command`	`array`	Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provi references $(VAR_NAME) are expanded using tl environment. If a variable cannot be resolved, th the input string will be unchanged. Double $$ are single $, which allows for escaping the $(VAR_N i.e. "$$(VAR_NAME)" will produce the string liter "$(VAR_NAME)". Escaped references will never regardless of whether the variable exists or not. updated. More info: https://kubernetes.io/docs/ta application/define-command-argument-container command-in-a-shell ↗
`env`	`array`	List of environment variables to set in the contair updated.
`envFrom`	`array`	List of sources to populate environment variables container. The keys defined within a source mus

Property	Type	Description
		C_IDENTIFIER. All invalid keys will be reported a when the container is starting. When a key exists sources, the value associated with the last sourc precedence. Values defined by an Env with a du take precedence. Cannot be updated.
`image`	`string`	Container image name. More info: https://kubernetes.io/docs/concepts/containers/ir field is optional to allow higher level config mana default or override container images in workload Deployments and StatefulSets.
`imagePullPolicy`	`string`	Image pull policy. One of Always, Never, IfNotPre to Always if :latest tag is specified, or IfNotPrese Cannot be updated. More info: https://kubernetes.io/docs/concepts/containers/ir images ↗
`lifecycle`	`object`	Actions that the management system should tak container lifecycle events. Cannot be updated.
`livenessProbe`	`object`	Periodic probe of container liveness. Container w the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`name`	`string`	Name of the container specified as a DNS_LABE container in a pod must have a unique name (DN

Property	Type	Description
		Cannot be updated.
`ports`	`array`	List of ports to expose from the container. Not sp here DOES NOT prevent that port from being ex which is listening on the default "0.0.0.0" address container will be accessible from the network. Mo array with strategic merge patch may corrupt the information See https://github.com/kubernetes/kubernetes/issues Cannot be updated.
`readinessProbe`	`object`	Periodic probe of container service readiness. Co removed from service endpoints if the probe fails updated. More info: https://kubernetes.io/docs/concepts/workloads/pc lifecycle#container-probes ↗
`resizePolicy`	`array`	Resources resize policy for the container.
`resources`	`object`	Compute Resources required by this container. C updated. More info: https://kubernetes.io/docs/concepts/configuration resources-containers/ ↗
`restartPolicy`	`string`	RestartPolicy defines the restart behavior of indiv in a pod. This field may only be set for init contai only allowed value is "Always". For non-init conta this field is not specified, the restart behavior is d

Property	Type	Description
		Pod's restart policy and the container type. Settir RestartPolicy as "Always" for the init container w following effect: this init container will be continua exit until all regular containers have terminated. (containers have completed, all init containers wit "Always" will be shut down. This lifecycle differs f containers and is often referred to as a "sidecar" Although this init container still starts in the init cc sequence, it does not wait for the container to co proceeding to the next init container. Instead, the container starts immediately after this init contair after any startupProbe has successfully complete
`securityContext`	`object`	SecurityContext defines the security options the be run with. If set, the fields of SecurityContext o equivalent fields of PodSecurityContext. More inf https://kubernetes.io/docs/tasks/configure-pod-container/security-context/ ↗
`startupProbe`	`object`	StartupProbe indicates that the Pod has success If specified, no other probes are executed until th successfully. If this probe fails, the Pod will be re the livenessProbe failed. This can be used to prc probe parameters at the beginning of a Pod's life might take a long time to load data or warm a ca steady-state operation. This cannot be updated. https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`stdin`	`boolean`	Whether this container should allocate a buffer fc container runtime. If this is not set, reads from st

Property	Type	Description
		container will always result in EOF. Default is fals
`stdinOnce`	`boolean`	Whether the container runtime should close the s after it has been opened by a single attach. Whe the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is oper start, is empty until the first client attaches to stdi remains open and accepts data until the client di which time stdin is closed and remains closed ur is restarted. If this flag is false, a container proce from stdin will never receive an EOF. Default is fa
`terminationMessagePath`	`string`	Optional: Path at which the file to which the conta termination message will be written is mounted i container's filesystem. Message written is intend final status, such as an assertion failure messag truncated by the node if greater than 4096 bytes. message length across all containers will be limit Defaults to /dev/termination-log. Cannot be upda
`terminationMessagePolicy`	`string`	Indicate how the termination message should be will use the contents of terminationMessagePath container status message on both success and f FallbackToLogsOnError will use the last chunk o output if the termination message file is empty ar exited with an error. The log output is limited to 2 lines, whichever is smaller. Defaults to File. Cann

Property	Type	Description
`tty`	`boolean`	Whether this container should allocate a TTY for requires 'stdin' to be true. Default is false.
`volumeDevices`	`array`	volumeDevices is the list of block devices to be u container.
`volumeMounts`	`array`	Pod volumes to mount into the container's filesys updated.
`workingDir`	`string`	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

.spec.workloads[].template.spec.containers[].args

Description

Arguments to the entrypoint. The container image's CMD is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.containers[].args[]

Type

`string`

.spec.workloads[].template.spec.containers[].command

Description

Entrypoint array. Not executed within a shell. The container image's ENTRYPOINT is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.containers[].command[]

Type

`string`

.spec.workloads[].template.spec.containers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the environment variable. Must be a C_IDENTIFIER.
`value`	`string`	Variable references $(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
`valueFrom`	`object`	Source for the environment variable's value. Cannot be used if value is not empty.

.spec.workloads[].template.spec.containers[].env[].valueFrom

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
`configMapKeyRef`	`object`	Selects a key of a ConfigMap.
`fieldRef`	`object`	Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
`secretKeyRef`	`object`	Selects a key of a secret in the pod's namespace

.spec.workloads[].template.spec.containers[].env[].valueFrom.configMapKeyRef

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key to select.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap or its key must be defined

.spec.workloads[].template.spec.containers[].env[].valueFrom.fieldRef

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.containers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"

Property	Type	Description
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.containers[].env[].valueFrom.secretKeyRef

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key of the secret to select from. Must be a valid secret key.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.containers[].envFrom

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].envFrom[]

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
`configMapRef`	`object`	The ConfigMap to select from
`prefix`	`string`	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
`secretRef`	`object`	The Secret to select from

.spec.workloads[].template.spec.containers[].envFrom[].configMapRef

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap must be defined

.spec.workloads[].template.spec.containers[].envFrom[].secretRef

Description

The Secret to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret must be defined

.spec.workloads[].template.spec.containers[].lifecycle

Description

Actions that the management system should take in response to container lifecycle events. Cannot be updated.

Type

`object`

Property	Type	Description
`postStart`	`object`	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
`preStop`	`object`	PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the

Property	Type	Description
		container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

.spec.workloads[].template.spec.containers[].lifecycle.postStart

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.

Property	Type	Description
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.postStart.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.

Property	Type	Description
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].lifecycle.postStart.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.containers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].lifecycle.preStop

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to

Property	Type	Description
		explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.preStop.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].lifecycle.preStop.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.containers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].livenessProbe

Description

Periodic probe of container liveness. Container will be restarted if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I

Property	Type	Description
		Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.containers[].livenessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].livenessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.containers[].livenessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].livenessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].livenessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].ports

Description

List of ports to expose from the container. Not specifying a port here DOES NOT prevent that port from being exposed. Any port which is listening on the default "0.0.0.0" address inside a container will be accessible from the network. Modifying this array with strategic merge patch may corrupt the data. For more information See https://github.com/kubernetes/kubernetes/issues/108255. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].ports[]

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
`containerPort`	`integer`	Number of port to expose on the pod's IP address. This must be a valid port number, 0 < x < 65536.
`hostIP`	`string`	What host IP to bind the external port to.
`hostPort`	`integer`	Number of port to expose on the host. If specified, this must be a valid port number, 0 < x < 65536. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
`name`	`string`	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
`protocol`	`string`	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

.spec.workloads[].template.spec.containers[].readinessProbe

Description

Periodic probe of container service readiness. Container will be removed from service endpoints if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu

Property	Type	Description
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.containers[].readinessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].readinessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].readinessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].readinessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.containers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].readinessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].readinessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].readinessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].resizePolicy

Description

Resources resize policy for the container.

Type

`array`

.spec.workloads[].template.spec.containers[].resizePolicy[]

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName` `restartPolicy`

Property	Type	Description
`resourceName`	`string`	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.
`restartPolicy`	`string`	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

.spec.workloads[].template.spec.containers[].resources

Description

Compute Resources required by this container. Cannot be updated. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

Property	Type	Description
`claims`	`array`	Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.containers[].resources.claims

Description

Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.

Type

`array`

.spec.workloads[].template.spec.containers[].resources.claims[]

Description

ResourceClaim references one entry in PodSpec.ResourceClaims.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.
`request`	`string`	Request is the name chosen for a request in the referenced claim. If empty, everything from the claim is made available, otherwise only the result of this request.

.spec.workloads[].template.spec.containers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.containers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.containers[].securityContext

Description

SecurityContext defines the security options the container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext. More info: https://kubernetes.io/docs/tasks/configure-pod-container/security-context/

Type

`object`

Property	Type	Description
`allowPrivilegeEscalation`	`boolean`	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no_new_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1. run as Privileged 2. has CAP_SYS_ADMIN Note that this field cannot be set when spec.os.name is windows.
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.
`capabilities`	`object`	The capabilities to add/drop when running containers. Defaults to the default set of

Property	Type	Description
		capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.
`privileged`	`boolean`	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when spec.os.name is windows.
`procMount`	`string`	procMount denotes the type of proc mount to use for the containers. The default value is Default which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows.
`readOnlyRootFilesystem`	`boolean`	Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.containers[].securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.containers[].securityContext.capabilities

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`add`	`array`	Added capabilities

Property	Type	Description
`drop`	`array`	Removed capabilities

.spec.workloads[].template.spec.containers[].securityContext.capabilities.add

Description

Added capabilities

Type

`array`

.spec.workloads[].template.spec.containers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.containers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.workloads[].template.spec.containers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.containers[].securityContext.seLinuxOptions

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.

Property	Type	Description
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.containers[].securityContext.seccompProfile

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container

Property	Type	Description
		runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.containers[].securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa ↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same

Property	Type	Description
		effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.containers[].startupProbe

Description

StartupProbe indicates that the Pod has successfully initialized. If specified, no other probes are executed until this completes successfully. If this probe fails, the Pod will be restarted, just as if the livenessProbe failed. This can be used to provide different probe parameters at the beginning of a Pod's lifecycle, when it might take a long time to load data or warm a cache, than during steady-state operation. This cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.containers[].startupProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.containers[].startupProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.containers[].startupProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.containers[].startupProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.containers[].startupProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.containers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.containers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.containers[].startupProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.containers[].volumeDevices

Description

volumeDevices is the list of block devices to be used by the container.

Type

`array`

.spec.workloads[].template.spec.containers[].volumeDevices[]

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath` `name`

Property	Type	Description
`devicePath`	`string`	devicePath is the path inside of the container that the device will be mapped to.

Property	Type	Description
`name`	`string`	name must match the name of a persistentVolumeClaim in the pod

.spec.workloads[].template.spec.containers[].volumeMounts

Description

Pod volumes to mount into the container's filesystem. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.containers[].volumeMounts[]

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath` `name`

Property	Type	Description
`mountPath`	`string`	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
`mountPropagation`	`string`	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. When RecursiveReadOnly is set to IfPossible or to Enabled, MountPropagation must be None or unspecified (which defaults to None).
`name`	`string`	This must match the Name of a Volume.
`readOnly`	`boolean`	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
`recursiveReadOnly`	`string`	RecursiveReadOnly specifies whether read-only mounts should be handled recursively. If ReadOnly is false, this field has no meaning and must be unspecified. If ReadOnly is true, and this field is set to Disabled, the mount is not made recursively read-only. If this field is set to IfPossible, the mount is made recursively read-only, if it is supported by the container runtime. If this field is set to Enabled, the mount is made recursively read-only if it is supported by the container runtime, otherwise the pod will not be started and an error will be generated to indicate the reason. If this field is set to IfPossible or Enabled, MountPropagation must be set to None (or be

Property	Type	Description
		unspecified, which defaults to None). If this field is not specified, it is treated as an equivalent of Disabled.
`subPath`	`string`	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
`subPathExpr`	`string`	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references $(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

.spec.workloads[].template.spec.dnsConfig

Description

Specifies the DNS parameters of a pod. Parameters specified here will be merged to the generated DNS configuration based on DNSPolicy.

Type

`object`

Property	Type	Description
`nameservers`	`array`	A list of DNS name server IP addresses. This will be appended to the base nameservers generated from DNSPolicy. Duplicated nameservers will be removed.
`options`	`array`	A list of DNS resolver options. This will be merged with the base options generated from DNSPolicy. Duplicated entries will be removed. Resolution options given in Options will override those that appear in the base DNSPolicy.
`searches`	`array`	A list of DNS search domains for host-name lookup. This will be appended to the base search paths generated from DNSPolicy. Duplicated search paths will be removed.

.spec.workloads[].template.spec.dnsConfig.nameservers

Description

A list of DNS name server IP addresses. This will be appended to the base nameservers generated from DNSPolicy. Duplicated nameservers will be removed.

Type

`array`

.spec.workloads[].template.spec.dnsConfig.nameservers[]

Type

`string`

.spec.workloads[].template.spec.dnsConfig.options

Description

A list of DNS resolver options. This will be merged with the base options generated from DNSPolicy. Duplicated entries will be removed. Resolution options given in Options will override those that appear in the base DNSPolicy.

Type

`array`

.spec.workloads[].template.spec.dnsConfig.options[]

Description

PodDNSConfigOption defines DNS resolver options of a pod.

Type

`object`

Property	Type	Description
`name`	`string`	Required.
`value`	`string`	

.spec.workloads[].template.spec.dnsConfig.searches

Description

A list of DNS search domains for host-name lookup. This will be appended to the base search paths generated from DNSPolicy. Duplicated search paths will be removed.

Type

`array`

.spec.workloads[].template.spec.dnsConfig.searches[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers

Description

List of ephemeral containers run in this pod. Ephemeral containers may be run in an existing pod to perform user-initiated actions such as debugging. This list cannot be specified when creating a pod, and it cannot be modified by updating the pod spec. In order to add an ephemeral container to an existing pod, use the pod's ephemeralcontainers subresource.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[]

Description

An EphemeralContainer is a temporary container that you may add to an existing Pod for user-initiated activities such as debugging. Ephemeral containers have no resource or scheduling guarantees, and they will not be restarted when they exit or when a Pod is removed or restarted. The kubelet may evict a Pod if an ephemeral container causes the Pod to exceed its resource allocation. To add an ephemeral container, use the ephemeralcontainers subresource of an existing Pod. Ephemeral containers may not be removed or restarted.

Type

`object`

Required

`name`

Property	Type	Description
`args`	`array`	Arguments to the entrypoint. The image's CMD is not provided. Variable references $(VAR_NAME) using the container's environment. If a variable c

Property	Type	Description
		resolved, the reference in the input string will be Double $$ are reduced to a single $, which allow the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" string literal "$(VAR_NAME)". Escaped reference expanded, regardless of whether the variable ex Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`command`	`array`	Entrypoint array. Not executed within a shell. The ENTRYPOINT is used if this is not provided. Vari $(VAR_NAME) are expanded using the containe If a variable cannot be resolved, the reference in will be unchanged. Double $$ are reduced to a s allows for escaping the $(VAR_NAME) syntax: i. "$$(VAR_NAME)" will produce the string literal "$ Escaped references will never be expanded, reg whether the variable exists or not. Cannot be upd https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`env`	`array`	List of environment variables to set in the contair updated.

Property	Type	Description
`envFrom`	`array`	List of sources to populate environment variables container. The keys defined within a source must C_IDENTIFIER. All invalid keys will be reported a when the container is starting. When a key exists sources, the value associated with the last sourc precedence. Values defined by an Env with a du take precedence. Cannot be updated.
`image`	`string`	Container image name. More info: https://kubernetes.io/docs/concepts/containers/ir
`imagePullPolicy`	`string`	Image pull policy. One of Always, Never, IfNotPre to Always if :latest tag is specified, or IfNotPrese Cannot be updated. More info: https://kubernetes.io/docs/concepts/containers/ir images ↗
`lifecycle`	`object`	Lifecycle is not allowed for ephemeral containers
`livenessProbe`	`object`	Probes are not allowed for ephemeral containers
`name`	`string`	Name of the ephemeral container specified as a This name must be unique among all containers, and ephemeral containers.

Property	Type	Description
`ports`	`array`	Ports are not allowed for ephemeral containers.
`readinessProbe`	`object`	Probes are not allowed for ephemeral containers
`resizePolicy`	`array`	Resources resize policy for the container.
`resources`	`object`	Resources are not allowed for ephemeral contai containers use spare resources already allocate
`restartPolicy`	`string`	Restart policy for the container to manage the re each container within a pod. This may only be se containers. You cannot set this field on ephemer
`securityContext`	`object`	Optional: SecurityContext defines the security op ephemeral container should be run with. If set, th SecurityContext override the equivalent fields of PodSecurityContext.
`startupProbe`	`object`	Probes are not allowed for ephemeral containers
`stdin`	`boolean`	Whether this container should allocate a buffer fo container runtime. If this is not set, reads from st container will always result in EOF. Default is fals

Property	Type	Description
`stdinOnce`	`boolean`	Whether the container runtime should close the s after it has been opened by a single attach. Whe the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is oper start, is empty until the first client attaches to stdi remains open and accepts data until the client di which time stdin is closed and remains closed ur is restarted. If this flag is false, a container proce from stdin will never receive an EOF. Default is fa
`targetContainerName`	`string`	If set, the name of the container from PodSpec th ephemeral container targets. The ephemeral cor run in the namespaces (IPC, PID, etc) of this cor then the ephemeral container uses the namespa in the Pod spec. The container runtime must implement support fo the runtime does not support namespace targeti result of setting this field is undefined.
`terminationMessagePath`	`string`	Optional: Path at which the file to which the conta termination message will be written is mounted in container's filesystem. Message written is intend final status, such as an assertion failure messag truncated by the node if greater than 4096 bytes. message length across all containers will be limit Defaults to /dev/termination-log. Cannot be upda
`terminationMessagePolicy`	`string`	Indicate how the termination message should be will use the contents of terminationMessagePath

Property	Type	Description
		container status message on both success and f FallbackToLogsOnError will use the last chunk o output if the termination message file is empty ar exited with an error. The log output is limited to 2 lines, whichever is smaller. Defaults to File. Canr
`tty`	`boolean`	Whether this container should allocate a TTY for requires 'stdin' to be true. Default is false.
`volumeDevices`	`array`	volumeDevices is the list of block devices to be u container.
`volumeMounts`	`array`	Pod volumes to mount into the container's filesys mounts are not allowed for ephemeral containers updated.
`workingDir`	`string`	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

.spec.workloads[].template.spec.ephemeralContainers[].args

Description

Arguments to the entrypoint. The image's CMD is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e.

"$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].args[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].command

Description

Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the environment variable. Must be a C_IDENTIFIER.
`value`	`string`	Variable references $(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME)

Property	Type	Description
		syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
`valueFrom`	`object`	Source for the environment variable's value. Cannot be used if value is not empty.

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
`configMapKeyRef`	`object`	Selects a key of a ConfigMap.
`fieldRef`	`object`	Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Property	Type	Description
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
`secretKeyRef`	`object`	Selects a key of a secret in the pod's namespace

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.configMapKeyRef

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key to select.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap or its key must be defined

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.fieldRef

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.ephemeralContainers[].env[].valueFrom.secretKeyRef

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key of the secret to select from. Must be a valid secret key.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.ephemeralContainers[].envFrom

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].envFrom[]

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
`configMapRef`	`object`	The ConfigMap to select from
`prefix`	`string`	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
`secretRef`	`object`	The Secret to select from

.spec.workloads[].template.spec.ephemeralContainers[].envFrom[].configMapRef

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap must be defined

.spec.workloads[].template.spec.ephemeralContainers[].envFrom[].secretRef

Description

The Secret to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret must be defined

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle

Description

Lifecycle is not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`postStart`	`object`	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
`preStop`	`object`	PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be

Property	Type	Description
		an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility.

Property	Type	Description
		There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.

Property	Type	Description
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.ephemeralContainers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when

tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.

Property	Type	Description
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru

Property	Type	Description
		pod are sent a termination signal and the ti processes are forcibly halted with a kill sigı value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceF gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root

Property	Type	Description
		('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].livenessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].ports

Description

Ports are not allowed for ephemeral containers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].ports[]

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
`containerPort`	`integer`	Number of port to expose on the pod's IP address. This must be a valid port number, 0 < x < 65536.

Property	Type	Description
`hostIP`	`string`	What host IP to bind the external port to.
`hostPort`	`integer`	Number of port to expose on the host. If specified, this must be a valid port number, 0 < x < 65536. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
`name`	`string`	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
`protocol`	`string`	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].readinessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].resizePolicy

Description

Resources resize policy for the container.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].resizePolicy[]

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName` `restartPolicy`

Property	Type	Description
`resourceName`	`string`	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.

Property	Type	Description
`restartPolicy`	`string`	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

.spec.workloads[].template.spec.ephemeralContainers[].resources

Description

Resources are not allowed for ephemeral containers. Ephemeral containers use spare resources already allocated to the pod.

Type

`object`

Property	Type	Description
`claims`	`array`	Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.ephemeralContainers[].resources.claims

Description

Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].resources.claims[]

Description

ResourceClaim references one entry in PodSpec.ResourceClaims.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.
`request`	`string`	Request is the name chosen for a request in the referenced claim. If empty, everything from the claim is made available, otherwise only the result of this request.

.spec.workloads[].template.spec.ephemeralContainers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.ephemeralContainers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext

Description

Optional: SecurityContext defines the security options the ephemeral container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext.

Type

`object`

Property	Type	Description
`allowPrivilegeEscalation`	`boolean`	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no_new_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1. run as Privileged 2. has CAP_SYS_ADMIN Note that this field cannot be set when spec.os.name is windows.
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.
`capabilities`	`object`	The capabilities to add/drop when running containers. Defaults to the default set of

Property	Type	Description
		capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.
`privileged`	`boolean`	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when spec.os.name is windows.
`procMount`	`string`	procMount denotes the type of proc mount to use for the containers. The default value is Default which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows.
`readOnlyRootFilesystem`	`boolean`	Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`add`	`array`	Added capabilities

Property	Type	Description
`drop`	`array`	Removed capabilities

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.add

Description

Added capabilities

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.seLinuxOptions

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.

Property	Type	Description
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.seccompProfile

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container

Property	Type	Description
		runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.ephemeralContainers[].securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa ↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same

Property	Type	Description
		effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded.

Property	Type	Description
		Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the ti processes are forcibly halted with a kill sig value longer than the expected cleanup tim

Property	Type	Description
		process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceF gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to

Property	Type	Description
		explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md ↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.

Property	Type	Description
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.ephemeralContainers[].startupProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.ephemeralContainers[].volumeDevices

Description

volumeDevices is the list of block devices to be used by the container.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].volumeDevices[]

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath` `name`

Property	Type	Description
`devicePath`	`string`	devicePath is the path inside of the container that the device will be mapped to.

Property	Type	Description
`name`	`string`	name must match the name of a persistentVolumeClaim in the pod

.spec.workloads[].template.spec.ephemeralContainers[].volumeMounts

Description

Pod volumes to mount into the container's filesystem. Subpath mounts are not allowed for ephemeral containers. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.ephemeralContainers[].volumeMounts[]

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath` `name`

Property	Type	Description
`mountPath`	`string`	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
`mountPropagation`	`string`	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. When RecursiveReadOnly is set to IfPossible or to Enabled, MountPropagation must be None or unspecified (which defaults to None).
`name`	`string`	This must match the Name of a Volume.
`readOnly`	`boolean`	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
`recursiveReadOnly`	`string`	RecursiveReadOnly specifies whether read-only mounts should be handled recursively. If ReadOnly is false, this field has no meaning and must be unspecified. If ReadOnly is true, and this field is set to Disabled, the mount is not made recursively read-only. If this field is set to IfPossible, the mount is made recursively read-only, if it is supported by the container runtime. If this field is set to Enabled, the mount is made recursively read-only if it is supported by the container runtime, otherwise the pod will not be started and an error will be generated to indicate the reason. If this field is set to IfPossible or Enabled, MountPropagation must be set to None (or be

Property	Type	Description
		unspecified, which defaults to None). If this field is not specified, it is treated as an equivalent of Disabled.
`subPath`	`string`	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
`subPathExpr`	`string`	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references $(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

.spec.workloads[].template.spec.hostAliases

Description

HostAliases is an optional list of hosts and IPs that will be injected into the pod's hosts file if specified.

Type

`array`

.spec.workloads[].template.spec.hostAliases[]

Description

HostAlias holds the mapping between IP and hostnames that will be injected as an entry in the pod's hosts file.

Type

`object`

Required

`ip`

Property	Type	Description
`hostnames`	`array`	Hostnames for the above IP address.
`ip`	`string`	IP address of the host file entry.

.spec.workloads[].template.spec.hostAliases[].hostnames

Description

Hostnames for the above IP address.

Type

`array`

.spec.workloads[].template.spec.hostAliases[].hostnames[]

Type

`string`

.spec.workloads[].template.spec.imagePullSecrets

Description

ImagePullSecrets is an optional list of references to secrets in the same namespace to use for pulling any of the images used by this PodSpec. If specified, these secrets will be passed to individual puller implementations for them to use. More info:

https://kubernetes.io/docs/concepts/containers/images#specifying-imagepullsecrets-on-a-pod

Type

`array`

.spec.workloads[].template.spec.imagePullSecrets[]

Description

LocalObjectReference contains enough information to let you locate the referenced object inside the same namespace.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.initContainers

Description

List of initialization containers belonging to the pod. Init containers are executed in order prior to containers being started. If any init container fails, the pod is considered to have failed and is handled according to its restartPolicy. The name for an init container or normal container must be unique among all containers. Init containers may not have Lifecycle actions, Readiness probes, Liveness probes, or Startup probes. The resourceRequirements of an init container are taken into account during scheduling by finding the highest request/limit for each resource type, and then using the max of of that value or the sum of the normal containers. Limits are applied to init containers in a similar fashion. Init

containers cannot currently be added or removed. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/init-containers/

Type

`array`

.spec.workloads[].template.spec.initContainers[]

Description

A single application container that you want to run within a pod.

Type

`object`

Required

`name`

Property	Type	Description
`args`	`array`	Arguments to the entrypoint. The container imag if this is not provided. Variable references $(VAR expanded using the container's environment. If a be resolved, the reference in the input string will Double $$ are reduced to a single $, which allow the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" string literal "$(VAR_NAME)". Escaped reference expanded, regardless of whether the variable ex Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
`command`	`array`	Entrypoint array. Not executed within a shell. The image's ENTRYPOINT is used if this is not provi references $(VAR_NAME) are expanded using tl environment. If a variable cannot be resolved, th

Property	Type	Description
		the input string will be unchanged. Double $$ are single $, which allows for escaping the $(VAR_N i.e. "$$(VAR_NAME)" will produce the string liter "$(VAR_NAME)". Escaped references will never regardless of whether the variable exists or not. updated. More info: https://kubernetes.io/docs/ta application/define-command-argument-container command-in-a-shell ↗
`env`	`array`	List of environment variables to set in the contair updated.
`envFrom`	`array`	List of sources to populate environment variables container. The keys defined within a source mus C_IDENTIFIER. All invalid keys will be reported a when the container is starting. When a key exists sources, the value associated with the last sourc precedence. Values defined by an Env with a du take precedence. Cannot be updated.
`image`	`string`	Container image name. More info: https://kubernetes.io/docs/concepts/containers/ir field is optional to allow higher level config mana default or override container images in workload Deployments and StatefulSets.
`imagePullPolicy`	`string`	Image pull policy. One of Always, Never, IfNotPre to Always if :latest tag is specified, or IfNotPrese Cannot be updated. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/containers/ir images ↗
`lifecycle`	`object`	Actions that the management system should tak container lifecycle events. Cannot be updated.
`livenessProbe`	`object`	Periodic probe of container liveness. Container w the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`name`	`string`	Name of the container specified as a DNS_LABE container in a pod must have a unique name (DN Cannot be updated.
`ports`	`array`	List of ports to expose from the container. Not sp here DOES NOT prevent that port from being ex which is listening on the default "0.0.0.0" address container will be accessible from the network. Mo array with strategic merge patch may corrupt the information See https://github.com/kubernetes/kubernetes/issues Cannot be updated.
`readinessProbe`	`object`	Periodic probe of container service readiness. Co removed from service endpoints if the probe fails updated. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`resizePolicy`	`array`	Resources resize policy for the container.
`resources`	`object`	Compute Resources required by this container. C updated. More info: https://kubernetes.io/docs/concepts/configuratior resources-containers/ ↗
`restartPolicy`	`string`	RestartPolicy defines the restart behavior of indiv in a pod. This field may only be set for init contai only allowed value is "Always". For non-init conta this field is not specified, the restart behavior is d Pod's restart policy and the container type. Settir RestartPolicy as "Always" for the init container w following effect: this init container will be continua exit until all regular containers have terminated. C containers have completed, all init containers wit "Always" will be shut down. This lifecycle differs f containers and is often referred to as a "sidecar" Although this init container still starts in the init co sequence, it does not wait for the container to co proceeding to the next init container. Instead, the container starts immediately after this init contair after any startupProbe has successfully complete
`securityContext`	`object`	SecurityContext defines the security options the be run with. If set, the fields of SecurityContext o equivalent fields of PodSecurityContext. More inf

Property	Type	Description
		https://kubernetes.io/docs/tasks/configure-pod-container/security-context/ ↗
`startupProbe`	`object`	StartupProbe indicates that the Pod has success If specified, no other probes are executed until th successfully. If this probe fails, the Pod will be re the livenessProbe failed. This can be used to pro probe parameters at the beginning of a Pod's life might take a long time to load data or warm a ca steady-state operation. This cannot be updated. https://kubernetes.io/docs/concepts/workloads/p lifecycle#container-probes ↗
`stdin`	`boolean`	Whether this container should allocate a buffer fo container runtime. If this is not set, reads from st container will always result in EOF. Default is fals
`stdinOnce`	`boolean`	Whether the container runtime should close the s after it has been opened by a single attach. Whe the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is oper start, is empty until the first client attaches to stdi remains open and accepts data until the client di which time stdin is closed and remains closed ur is restarted. If this flag is false, a container proce from stdin will never receive an EOF. Default is fa
`terminationMessagePath`	`string`	Optional: Path at which the file to which the conta termination message will be written is mounted i container's filesystem. Message written is intend

Property	Type	Description
		final status, such as an assertion failure messag truncated by the node if greater than 4096 bytes. message length across all containers will be limit Defaults to /dev/termination-log. Cannot be upda
`terminationMessagePolicy`	`string`	Indicate how the termination message should be will use the contents of terminationMessagePath container status message on both success and f FallbackToLogsOnError will use the last chunk o output if the termination message file is empty ar exited with an error. The log output is limited to 2 lines, whichever is smaller. Defaults to File. Cann
`tty`	`boolean`	Whether this container should allocate a TTY for requires 'stdin' to be true. Default is false.
`volumeDevices`	`array`	volumeDevices is the list of block devices to be u container.
`volumeMounts`	`array`	Pod volumes to mount into the container's filesys updated.
`workingDir`	`string`	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

.spec.workloads[].template.spec.initContainers[].args

Description

Arguments to the entrypoint. The container image's CMD is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.initContainers[].args[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].command

Description

Entrypoint array. Not executed within a shell. The container image's ENTRYPOINT is used if this is not provided. Variable references $(VAR_NAME) are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Cannot be updated. More info: https://kubernetes.io/docs/tasks/inject-data-application/define-command-argument-container/#running-a-command-in-a-shell

Type

`array`

.spec.workloads[].template.spec.initContainers[].command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].env

Description

List of environment variables to set in the container. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].env[]

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the environment variable. Must be a C_IDENTIFIER.
`value`	`string`	Variable references $(VAR_NAME) are expanded using the previously defined environment variables in the container and any service environment variables. If a variable cannot be resolved, the reference in the input

Property	Type	Description
		string will be unchanged. Double $$ are reduced to a single $, which allows for escaping the $(VAR_NAME) syntax: i.e. "$$(VAR_NAME)" will produce the string literal "$(VAR_NAME)". Escaped references will never be expanded, regardless of whether the variable exists or not. Defaults to "".
`valueFrom`	`object`	Source for the environment variable's value. Cannot be used if value is not empty.

.spec.workloads[].template.spec.initContainers[].env[].valueFrom

Description

Source for the environment variable's value. Cannot be used if value is not empty.

Type

`object`

Property	Type	Description
`configMapKeyRef`	`object`	Selects a key of a ConfigMap.
`fieldRef`	`object`	Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Property	Type	Description
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.
`secretKeyRef`	`object`	Selects a key of a secret in the pod's namespace

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.configMapKeyRef

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key to select.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the ConfigMap or its key must be defined

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.fieldRef

Description

Selects a field of the pod: supports metadata.name, metadata.namespace, `metadata.labels['<KEY>']`, `metadata.annotations['<KEY>']`, spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, limits.ephemeral-storage, requests.cpu, requests.memory and requests.ephemeral-storage) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.initContainers[].env[].valueFrom.secretKeyRef

Description

Selects a key of a secret in the pod's namespace

Type

`object`

Required

`key`

Property	Type	Description
`key`	`string`	The key of the secret to select from. Must be a valid secret key.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.initContainers[].envFrom

Description

List of sources to populate environment variables in the container. The keys defined within a source must be a C_IDENTIFIER. All invalid keys will be reported as an event when the container is starting. When a key exists in multiple sources, the value associated with the last source will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].envFrom[]

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
`configMapRef`	`object`	The ConfigMap to select from
`prefix`	`string`	An optional identifier to prepend to each key in the ConfigMap. Must be a C_IDENTIFIER.
`secretRef`	`object`	The Secret to select from

.spec.workloads[].template.spec.initContainers[].envFrom[].configMapRef

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

Property	Type	Description
`optional`	`boolean`	Specify whether the ConfigMap must be defined

.spec.workloads[].template.spec.initContainers[].envFrom[].secretRef

Description

The Secret to select from

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	Specify whether the Secret must be defined

.spec.workloads[].template.spec.initContainers[].lifecycle

Description

Actions that the management system should take in response to container lifecycle events. Cannot be updated.

Type

`object`

Property	Type	Description
`postStart`	`object`	PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗
`preStop`	`object`	PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks ↗

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart

Description

PostStart is called immediately after a container is created. If the handler fails, the container is terminated and restarted according to its restart policy. Other management of the

container blocks until the hook completes. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.initContainers[].lifecycle.postStart.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop

Description

PreStop is called immediately before a container is terminated due to an API request or management event such as liveness/startup probe failure, preemption, resource contention, etc. The handler is not called if the container crashes or exits. The Pod's termination grace period countdown begins before the PreStop hook is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period (unless delayed by finalizers). Other management of the container blocks until the hook completes or until the termination grace period is reached. More info: https://kubernetes.io/docs/concepts/containers/container-lifecycle-hooks/#container-hooks

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`httpGet`	`object`	HTTPGet specifies the http request to perform.
`sleep`	`object`	Sleep represents the duration that the container should sleep before being terminated.
`tcpSocket`	`object`	Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when tcp handler is specified.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.

Property	Type	Description
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.sleep

Description

Sleep represents the duration that the container should sleep before being terminated.

Type

`object`

Required

`seconds`

Property	Type	Description
`seconds`	`integer`	Seconds is the number of seconds to sleep.

.spec.workloads[].template.spec.initContainers[].lifecycle.preStop.tcpSocket

Description

Deprecated. TCPSocket is NOT supported as a LifecycleHandler and kept for the backward compatibility. There are no validation of this field and lifecycle hooks will fail in runtime when

tcp handler is specified.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].livenessProbe

Description

Periodic probe of container liveness. Container will be restarted if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.

Property	Type	Description
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru

Property	Type	Description
		pod are sent a termination signal and the ti processes are forcibly halted with a kill sigı value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceF gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.initContainers[].livenessProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root

Property	Type	Description
		('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].livenessProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].livenessProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].livenessProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.initContainers[].livenessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].livenessProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].livenessProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].livenessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].ports

Description

List of ports to expose from the container. Not specifying a port here DOES NOT prevent that port from being exposed. Any port which is listening on the default "0.0.0.0" address inside a container will be accessible from the network. Modifying this array with strategic merge patch may corrupt the data. For more information See https://github.com/kubernetes/kubernetes/issues/108255. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].ports[]

Description

ContainerPort represents a network port in a single container.

Type

`object`

Required

`containerPort`

Property	Type	Description
`containerPort`	`integer`	Number of port to expose on the pod's IP address. This must be a valid port number, 0 < x < 65536.

Property	Type	Description
`hostIP`	`string`	What host IP to bind the external port to.
`hostPort`	`integer`	Number of port to expose on the host. If specified, this must be a valid port number, 0 < x < 65536. If HostNetwork is specified, this must match ContainerPort. Most containers do not need this.
`name`	`string`	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must have a unique name. Name for the port that can be referred to by services.
`protocol`	`string`	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

.spec.workloads[].template.spec.initContainers[].readinessProbe

Description

Periodic probe of container service readiness. Container will be removed from service endpoints if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.initContainers[].readinesProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].readinesProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].readinesProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].readinesProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.initContainers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].readinesProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].readinesProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].readinessProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].resizePolicy

Description

Resources resize policy for the container.

Type

`array`

.spec.workloads[].template.spec.initContainers[].resizePolicy[]

Description

ContainerResizePolicy represents resource resize policy for the container.

Type

`object`

Required

`resourceName` `restartPolicy`

Property	Type	Description
`resourceName`	`string`	Name of the resource to which this resource resize policy applies. Supported values: cpu, memory.

Property	Type	Description
`restartPolicy`	`string`	Restart policy to apply when specified resource is resized. If not specified, it defaults to NotRequired.

.spec.workloads[].template.spec.initContainers[].resources

Description

Compute Resources required by this container. Cannot be updated. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

Property	Type	Description
`claims`	`array`	Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.initContainers[].resources.claims

Description

Claims lists the names of resources, defined in spec.resourceClaims, that are used by this container. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable. It can only be set for containers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].resources.claims[]

Description

ResourceClaim references one entry in PodSpec.ResourceClaims.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name must match the name of one entry in pod.spec.resourceClaims of the Pod where this field is used. It makes that resource available inside a container.
`request`	`string`	Request is the name chosen for a request in the referenced claim. If empty, everything from the claim is made available, otherwise only the result of this request.

.spec.workloads[].template.spec.initContainers[].resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.initContainers[].resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.initContainers[].securityContext

Description

SecurityContext defines the security options the container should be run with. If set, the fields of SecurityContext override the equivalent fields of PodSecurityContext. More info: https://kubernetes.io/docs/tasks/configure-pod-container/security-context/

Type

`object`

Property	Type	Description
`allowPrivilegeEscalation`	`boolean`	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the no_new_privs flag will be set on the container process. AllowPrivilegeEscalation is true always when the container is: 1. run as Privileged 2. has CAP_SYS_ADMIN Note that this field cannot be set when spec.os.name is windows.
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.
`capabilities`	`object`	The capabilities to add/drop when running containers. Defaults to the default set of

Property	Type	Description
		capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.
`privileged`	`boolean`	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false. Note that this field cannot be set when spec.os.name is windows.
`procMount`	`string`	procMount denotes the type of proc mount to use for the containers. The default value is Default which uses the container runtime defaults for readonly paths and masked paths. This requires the ProcMountType feature flag to be enabled. Note that this field cannot be set when spec.os.name is windows.
`readOnlyRootFilesystem`	`boolean`	Whether this container has a read-only root filesystem. Default is false. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes

Property	Type	Description
		precedence. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.initContainers[].securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by this container. If set, this profile overrides the pod's appArmorProfile. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities

Description

The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`add`	`array`	Added capabilities

Property	Type	Description
`drop`	`array`	Removed capabilities

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.add

Description

Added capabilities

Type

`array`

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.workloads[].template.spec.initContainers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.workloads[].template.spec.initContainers[].securityContext.seLinuxOptions

Description

The SELinux context to be applied to the container. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.

Property	Type	Description
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.initContainers[].securityContext.seccompProfile

Description

The seccomp options to use by this container. If seccomp options are provided at both the pod & container level, the container options override the pod options. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container

Property	Type	Description
		runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.initContainers[].securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options from the PodSecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same

Property	Type	Description
		effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.initContainers[].startupProbe

Description

StartupProbe indicates that the Pod has successfully initialized. If specified, no other probes are executed until this completes successfully. If this probe fails, the Pod will be restarted, just as if the livenessProbe failed. This can be used to provide different probe parameters at the beginning of a Pod's lifecycle, when it might take a long time to load data or warm a cache, than during steady-state operation. This cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes

Type

`object`

Property	Type	Description
`exec`	`object`	Exec specifies the action to take.
`failureThreshold`	`integer`	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
`grpc`	`object`	GRPC specifies an action involving a GRP
`httpGet`	`object`	HTTPGet specifies the http request to perf
`initialDelaySeconds`	`integer`	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗
`periodSeconds`	`integer`	How often (in seconds) to perform the prob 10 seconds. Minimum value is 1.
`successThreshold`	`integer`	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
`tcpSocket`	`object`	TCPSocket specifies an action involving a

Property	Type	Description
`terminationGracePeriodSeconds`	`integer`	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes ru pod are sent a termination signal and the t processes are forcibly halted with a kill sig value longer than the expected cleanup tim process. If this value is nil, the pod's terminationGracePeriodSeconds will be us Otherwise, this value overrides the value p pod spec. Value must be non-negative inte value zero indicates stop immediately via t (no opportunity to shut down). This is a bet requires enabling ProbeTerminationGraceP gate. Minimum value is 1. spec.terminationGracePeriodSeconds is u
`timeoutSeconds`	`integer`	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes ↗

.spec.workloads[].template.spec.initContainers[].startupProbe.exec

Description

Exec specifies the action to take.

Type

`object`

Property	Type	Description
`command`	`array`	Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

.spec.workloads[].template.spec.initContainers[].startupProbe.exec.command

Description

Command is the command line to execute inside the container, the working directory for the command is root ('/') in the container's filesystem. The command is simply exec'd, it is not run inside a shell, so traditional shell instructions ('|', etc) won't work. To use a shell, you need to explicitly call out to that shell. Exit status of 0 is treated as live/healthy and non-zero is unhealthy.

Type

`array`

.spec.workloads[].template.spec.initContainers[].startupProbe.exec.command[]

Type

`string`

.spec.workloads[].template.spec.initContainers[].startupProbe.grpc

Description

GRPC specifies an action involving a GRPC port.

Type

`object`

Required

`port`

Property	Type	Description
`port`	`integer`	Port number of the gRPC service. Number must be in the range 1 to 65535.
`service`	`string`	Service is the name of the service to place in the gRPC HealthCheckRequest (see https://github.com/grpc/grpc/blob/master/doc/health-checking.md↗). If this is not specified, the default behavior is defined by gRPC.

.spec.workloads[].template.spec.initContainers[].startupProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
`httpHeaders`	`array`	Custom headers to set in the request. HTTP allows repeated headers.
`path`	`string`	Path to access on the HTTP server.
`port`		Name or number of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.
`scheme`	`string`	Scheme to use for connecting to the host. Defaults to HTTP.

.spec.workloads[].template.spec.initContainers[].startupProbe.httpGet.httpHeaders

Description

Custom headers to set in the request. HTTP allows repeated headers.

Type

`array`

.spec.workloads[].template.spec.initContainers[].startupProbe.httpGet.httpHeaders[]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	The header field name. This will be canonicalized upon output, so case-variant names will be understood as the same header.
`value`	`string`	The header field value

.spec.workloads[].template.spec.initContainers[].startupProbe.tcpSocket

Description

TCPSocket specifies an action involving a TCP port.

Type

`object`

Required

`port`

Property	Type	Description
`host`	`string`	Optional: Host name to connect to, defaults to the pod IP.

Property	Type	Description
`port`		Number or name of the port to access on the container. Number must be in the range 1 to 65535. Name must be an IANA_SVC_NAME.

.spec.workloads[].template.spec.initContainers[].volumeDevices

Description

volumeDevices is the list of block devices to be used by the container.

Type

`array`

.spec.workloads[].template.spec.initContainers[].volumeDevices[]

Description

volumeDevice describes a mapping of a raw block device within a container.

Type

`object`

Required

`devicePath` `name`

Property	Type	Description
`devicePath`	`string`	devicePath is the path inside of the container that the device will be mapped to.

Property	Type	Description
`name`	`string`	name must match the name of a persistentVolumeClaim in the pod

.spec.workloads[].template.spec.initContainers[].volumeMounts

Description

Pod volumes to mount into the container's filesystem. Cannot be updated.

Type

`array`

.spec.workloads[].template.spec.initContainers[].volumeMounts[]

Description

VolumeMount describes a mounting of a Volume within a container.

Type

`object`

Required

`mountPath` `name`

Property	Type	Description
`mountPath`	`string`	Path within the container at which the volume should be mounted. Must not contain ':'.

Property	Type	Description
`mountPropagation`	`string`	mountPropagation determines how mounts are propagated from the host to container and the other way around. When not set, MountPropagationNone is used. This field is beta in 1.10. When RecursiveReadOnly is set to IfPossible or to Enabled, MountPropagation must be None or unspecified (which defaults to None).
`name`	`string`	This must match the Name of a Volume.
`readOnly`	`boolean`	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
`recursiveReadOnly`	`string`	RecursiveReadOnly specifies whether read-only mounts should be handled recursively. If ReadOnly is false, this field has no meaning and must be unspecified. If ReadOnly is true, and this field is set to Disabled, the mount is not made recursively read-only. If this field is set to IfPossible, the mount is made recursively read-only, if it is supported by the container runtime. If this field is set to Enabled, the mount is made recursively read-only if it is supported by the container runtime, otherwise the pod will not be started and an error will be generated to indicate the reason. If this field is set to IfPossible or Enabled, MountPropagation must be set to None (or be

Property	Type	Description
		unspecified, which defaults to None). If this field is not specified, it is treated as an equivalent of Disabled.
`subPath`	`string`	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
`subPathExpr`	`string`	Expanded path within the volume from which the container's volume should be mounted. Behaves similarly to SubPath but environment variable references $(VAR_NAME) are expanded using the container's environment. Defaults to "" (volume's root). SubPathExpr and SubPath are mutually exclusive.

.spec.workloads[].template.spec.nodeSelector

Description

NodeSelector is a selector which must be true for the pod to fit on a node. Selector which must match a node's labels for the pod to be scheduled on that node. More info: https://kubernetes.io/docs/concepts/configuration/assign-pod-node/

Type

`object`

.spec.workloads[].template.spec.os

Description

Specifies the OS of the containers in the pod. Some pod and container fields are restricted if this is set. If the OS field is set to linux, the following fields must be unset: - securityContext.windowsOptions If the OS field is set to windows, following fields must be unset: - spec.hostPID - spec.hostIPC - spec.hostUsers - spec.securityContext.appArmorProfile - spec.securityContext.seLinuxOptions - spec.securityContext.seccompProfile - spec.securityContext.fsGroup - spec.securityContext.fsGroupChangePolicy - spec.securityContext.sysctls - spec.shareProcessNamespace - spec.securityContext.runAsUser - spec.securityContext.runAsGroup - spec.securityContext.supplementalGroups - spec.securityContext.supplementalGroupsPolicy - spec.containers[*].securityContext.appArmorProfile - spec.containers[*].securityContext.seLinuxOptions - spec.containers[*].securityContext.seccompProfile - spec.containers[*].securityContext.capabilities - spec.containers[*].securityContext.readOnlyRootFilesystem - spec.containers[*].securityContext.privileged - spec.containers[*].securityContext.allowPrivilegeEscalation - spec.containers[*].securityContext.procMount - spec.containers[*].securityContext.runAsUser - spec.containers[*].securityContext.runAsGroup

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name is the name of the operating system. The currently supported values are linux and windows. Additional value may be defined in future and can be one of: https://github.com/opencontainers/runtime-spec/blob/master/config.md#platform-specific-configuration ↗ Clients should expect to handle additional values and treat unrecognized values in this field as os: null

.spec.workloads[].template.spec.overhead

Description

Overhead represents the resource overhead associated with running a pod for a given RuntimeClass. This field will be autopopulated at admission time by the RuntimeClass admission controller. If the RuntimeClass admission controller is enabled, overhead must not be set in Pod create requests. The RuntimeClass admission controller will reject Pod create requests which have the overhead already set. If RuntimeClass is configured and selected in the PodSpec, Overhead will be set to the value defined in the corresponding RuntimeClass, otherwise it will remain unset and treated as zero. More info: https://git.k8s.io/enhancements/keps/sig-node/688-pod-overhead/README.md

Type

`object`

.spec.workloads[].template.spec.readinessGates

Description

If specified, all readiness gates will be evaluated for pod readiness. A pod is ready when all its containers are ready AND all conditions specified in the readiness gates have status equal to "True" More info: https://git.k8s.io/enhancements/keps/sig-network/580-pod-readiness-gates

Type

`array`

.spec.workloads[].template.spec.readinessGates[]

Description

PodReadinessGate contains the reference to a pod condition

Type

`object`

Required

`conditionType`

Property	Type	Description
`conditionType`	`string`	ConditionType refers to a condition in the pod's condition list with matching type.

.spec.workloads[].template.spec.resourceClaims

Description

ResourceClaims defines which ResourceClaims must be allocated and reserved before the Pod is allowed to start. The resources will be made available to those containers which consume them by name. This is an alpha field and requires enabling the DynamicResourceAllocation feature gate. This field is immutable.

Type

`array`

.spec.workloads[].template.spec.resourceClaims[]

Description

PodResourceClaim references exactly one ResourceClaim, either directly or by naming a ResourceClaimTemplate which is then turned into a ResourceClaim for the pod. It adds a name to it that uniquely identifies the ResourceClaim inside the Pod. Containers that need access to the ResourceClaim reference it with this name.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name uniquely identifies this resource claim inside the pod. This must be a

Property	Type	Description
		DNS_LABEL.
`resourceClaimName`	`string`	ResourceClaimName is the name of a ResourceClaim object in the same namespace as this pod. Exactly one of ResourceClaimName and ResourceClaimTemplateName must be set.
`resourceClaimTemplateName`	`string`	ResourceClaimTemplateName is the name of a ResourceClaimTemplate object in the same namespace as this pod. The template will be used to create a new ResourceClaim, which will be bound to this pod. When this pod is deleted, the ResourceClaim will also be deleted. The pod name and resource name, along with a generated component, will be used to form a unique name for the ResourceClaim, which will be recorded in pod.status.resourceClaimStatuses. This field is immutable and no changes will be made to the corresponding ResourceClaim by the control plane after creating the ResourceClaim. Exactly one of ResourceClaimName and ResourceClaimTemplateName must be set.

.spec.workloads[].template.spec.schedulingGates

Description

SchedulingGates is an opaque list of values that if specified will block scheduling the pod. If schedulingGates is not empty, the pod will stay in the SchedulingGated state and the scheduler will not attempt to schedule the pod. SchedulingGates can only be set at pod creation time, and be removed only afterwards.

Type

`array`

.spec.workloads[].template.spec.schedulingGates[]

Description

PodSchedulingGate is associated to a Pod to guard its scheduling.

Type

`object`

Required

`name`

Property	Type	Description
`name`	`string`	Name of the scheduling gate. Each scheduling gate must have a unique name field.

.spec.workloads[].template.spec.securityContext

Description

SecurityContext holds pod-level security attributes and common container settings. Optional: Defaults to empty. See type description for default values of each field.

Type

`object`

Property	Type	Description
`appArmorProfile`	`object`	appArmorProfile is the AppArmor options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.
`fsGroup`	`integer`	A special supplemental group that applies to all containers in a pod. Some volume types allow the Kubelet to change the ownership of that volume to be owned by the pod: 1. The owning GID will be the FSGroup 2. The setgid bit is set (new files created in the volume will be owned by FSGroup) 3. The permission bits are OR'd with rw-rw---- If unset, the Kubelet will not modify the ownership and permissions of any volume. Note that this field cannot be set when spec.os.name is windows.
`fsGroupChangePolicy`	`string`	fsGroupChangePolicy defines behavior of changing ownership and permission of the volume before being exposed inside Pod. This field will only apply to volume types which support fsGroup based ownership(and permissions). It will have no effect on ephemeral volume types such as: secret, configmaps and emptydir. Valid values are "OnRootMismatch" and

Property	Type	Description
		"Always". If not specified, "Always" is used. Note that this field cannot be set when spec.os.name is windows.
`runAsGroup`	`integer`	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.
`runAsNonRoot`	`boolean`	Indicates that the container must run as a non-root user. If true, the Kubelet will validate the image at runtime to ensure that it does not run as UID 0 (root) and fail to start the container if it does. If unset or false, no such validation will be performed. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.
`runAsUser`	`integer`	The UID to run the entrypoint of the container process. Defaults to user specified in image metadata if unspecified. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that

Property	Type	Description
		container. Note that this field cannot be set when spec.os.name is windows.
`seLinuxOptions`	`object`	The SELinux context to be applied to all containers. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in SecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.
`seccompProfile`	`object`	The seccomp options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.
`supplementalGroups`	`array`	A list of groups applied to the first process run in each container, in addition to the container's primary GID and fsGroup (if specified). If the SupplementalGroupsPolicy feature is enabled, the supplementalGroupsPolicy field determines whether these are in addition to or instead of any group memberships defined in the container image. If unspecified, no additional groups are added, though group memberships defined in the container image may still be used, depending on the

Property	Type	Description
		supplementalGroupsPolicy field. Note that this field cannot be set when spec.os.name is windows.
`supplementalGroupsPolicy`	`string`	Defines how supplemental groups of the first container processes are calculated. Valid values are "Merge" and "Strict". If not specified, "Merge" is used. (Alpha) Using the field requires the SupplementalGroupsPolicy feature gate to be enabled and the container runtime must implement support for this feature. Note that this field cannot be set when spec.os.name is windows.
`sysctls`	`array`	Sysctls hold a list of namespaced sysctls used for the pod. Pods with unsupported sysctls (by the container runtime) might fail to launch. Note that this field cannot be set when spec.os.name is windows.
`windowsOptions`	`object`	The Windows specific settings applied to all containers. If unspecified, the options within a container's SecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

.spec.workloads[].template.spec.securityContext.appArmorProfile

Description

appArmorProfile is the AppArmor options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile loaded on the node that should be used. The profile must be preconfigured on the node to work. Must match the loaded name of the profile. Must be set if and only if type is "Localhost".
`type`	`string`	type indicates which kind of AppArmor profile will be applied. Valid options are: Localhost - a profile pre-loaded on the node. RuntimeDefault - the container runtime's default profile. Unconfined - no AppArmor enforcement.

.spec.workloads[].template.spec.securityContext.seLinuxOptions

Description

The SELinux context to be applied to all containers. If unspecified, the container runtime will allocate a random SELinux context for each container. May also be set in SecurityContext.

If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence for that container. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Property	Type	Description
`level`	`string`	Level is SELinux level label that applies to the container.
`role`	`string`	Role is a SELinux role label that applies to the container.
`type`	`string`	Type is a SELinux type label that applies to the container.
`user`	`string`	User is a SELinux user label that applies to the container.

.spec.workloads[].template.spec.securityContext.seccompProfile

Description

The seccomp options to use by the containers in this pod. Note that this field cannot be set when spec.os.name is windows.

Type

`object`

Required

`type`

Property	Type	Description
`localhostProfile`	`string`	localhostProfile indicates a profile defined in a file on the node should be used. The profile must be preconfigured on the node to work. Must be a descending path, relative to the kubelet's configured seccomp profile location. Must be set if type is "Localhost". Must NOT be set for any other type.
`type`	`string`	type indicates which kind of seccomp profile will be applied. Valid options are: Localhost - a profile defined in a file on the node should be used. RuntimeDefault - the container runtime default profile should be used. Unconfined - no profile should be applied.

.spec.workloads[].template.spec.securityContext.supplementalGroups

Description

A list of groups applied to the first process run in each container, in addition to the container's primary GID and fsGroup (if specified). If the SupplementalGroupsPolicy feature is enabled, the supplementalGroupsPolicy field determines whether these are in addition to or instead of any group memberships defined in the container image. If unspecified, no additional groups are added, though group memberships defined in the container image may still be used, depending on the supplementalGroupsPolicy field. Note that this field cannot be set when spec.os.name is windows.

Type

`array`

.spec.workloads[].template.spec.securityContext.supplementalGroups[]

Type

`integer`

.spec.workloads[].template.spec.securityContext.sysctls

Description

Sysctls hold a list of namespaced sysctls used for the pod. Pods with unsupported sysctls (by the container runtime) might fail to launch. Note that this field cannot be set when spec.os.name is windows.

Type

`array`

.spec.workloads[].template.spec.securityContext.sysctls[]

Description

Sysctl defines a kernel parameter to be set

Type

`object`

Required

`name` `value`

Property	Type	Description
`name`	`string`	Name of a property to set
`value`	`string`	Value of a property to set

.spec.workloads[].template.spec.securityContext.windowsOptions

Description

The Windows specific settings applied to all containers. If unspecified, the options within a container's SecurityContext will be used. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence. Note that this field cannot be set when spec.os.name is linux.

Type

`object`

Property	Type	Description
`gmsaCredentialSpec`	`string`	GMSACredentialSpec is where the GMSA admission webhook (https://github.com/kubernetes-sigs/windows-gmsa↗) inlines the contents of the GMSA credential spec named by the GMSACredentialSpecName field.
`gmsaCredentialSpecName`	`string`	GMSACredentialSpecName is the name of the GMSA credential spec to use.
`hostProcess`	`boolean`	HostProcess determines if a container should be run as a 'Host Process' container. All of a Pod's containers must have the same effective HostProcess value (it is not allowed to have a mix of HostProcess containers and non-HostProcess containers). In addition, if HostProcess is true then HostNetwork must also be set to true.

Property	Type	Description
`runAsUserName`	`string`	The UserName in Windows to run the entrypoint of the container process. Defaults to the user specified in image metadata if unspecified. May also be set in PodSecurityContext. If set in both SecurityContext and PodSecurityContext, the value specified in SecurityContext takes precedence.

.spec.workloads[].template.spec.tolerations

Description

If specified, the pod's tolerations.

Type

`array`

.spec.workloads[].template.spec.tolerations[]

Description

The pod this Toleration is attached to tolerates any taint that matches the triple <key,value,effect> using the matching operator <operator>.

Type

`object`

Property	Type	Description
`effect`	`string`	Effect indicates the taint effect to match. Empty means match all taint effects. When specified, allowed values are NoSchedule, PreferNoSchedule and NoExecute.
`key`	`string`	Key is the taint key that the toleration applies to. Empty means match all taint keys. If the key is empty, operator must be Exists; this combination means to match all values and all keys.
`operator`	`string`	Operator represents a key's relationship to the value. Valid operators are Exists and Equal. Defaults to Equal. Exists is equivalent to wildcard for value, so that a pod can tolerate all taints of a particular category.
`tolerationSeconds`	`integer`	TolerationSeconds represents the period of time the toleration (which must be of effect NoExecute, otherwise this field is ignored) tolerates the taint. By default, it is not set, which means tolerate the taint forever (do not evict). Zero and negative values will be treated as 0 (evict immediately) by the system.
`value`	`string`	Value is the taint value the toleration matches to. If the operator is Exists, the value should be empty, otherwise just a regular string.

.spec.workloads[].template.spec.topologySpreadConstraints

Description

TopologySpreadConstraints describes how a group of pods ought to spread across topology domains. Scheduler will schedule pods in a way which abides by the constraints. All topologySpreadConstraints are ANDed.

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[]

Description

TopologySpreadConstraint specifies how to spread matching pods among the given topology.

Type

`object`

Required

`maxSkew` `topologyKey` `whenUnsatisfiable`

Property	Type	Description
`labelSelector`	`object`	LabelSelector is used to find matching pods. Pods that match this label selector are counted to determine the number of pods in their corresponding topology domain.
`matchLabelKeys`	`array`	MatchLabelKeys is a set of pod label keys to select the pods over which spreading will be calculated. The keys are used to lookup values

Property	Type	Description
		from the incoming pod labels, those key-value labels are ANDed with labelSelector to select the group of existing pods over which spreading will be calculated for the incoming pod. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. MatchLabelKeys cannot be set when LabelSelector isn't set. Keys that don't exist in the incoming pod labels will be ignored. A null or empty list means only match against labelSelector. This is a beta field and requires the MatchLabelKeysInPodTopologySpread feature gate to be enabled (enabled by default).
`maxSkew`	`integer`	MaxSkew describes the degree to which pods may be unevenly distributed. When `whenUnsatisfiable=DoNotSchedule`, it is the maximum permitted difference between the number of matching pods in the target topology and the global minimum. The global minimum is the minimum number of matching pods in an eligible domain or zero if the number of eligible domains is less than MinDomains. For example, in a 3-zone cluster, MaxSkew is set to 1, and pods with the same labelSelector spread as 2/2/1: In this case, the global minimum is 1. | zone1 | zone2 | zone3 | | P P | P P | P | • if MaxSkew is 1, incoming pod can only be scheduled to zone3 to become 2/2/2; scheduling it onto zone1(zone2) would make the ActualSkew(3-1) on zone1(zone2) violate MaxSkew(1).

Property	Type	Description
		• if MaxSkew is 2, incoming pod can be scheduled onto any zone. When `whenUnsatisfiable=ScheduleAnyway`, it is used to give higher precedence to topologies that satisfy it. It's a required field. Default value is 1 and 0 is not allowed.

Property	Type	Description
`minDomains`	`integer`	MinDomains indicates a minimum number of eligible domains. When the number of eligible domains with matching topology keys is less than minDomains, Pod Topology Spread treats "global minimum" as 0, and then the calculation of Skew is performed. And when the number of eligible domains with matching topology keys equals or greater than minDomains, this value has no effect on scheduling. As a result, when the number of eligible domains is less than minDomains, scheduler won't schedule more than maxSkew Pods to those domains. If value is nil, the constraint behaves as if MinDomains is equal to 1. Valid values are integers greater than 0. When value is not nil, WhenUnsatisfiable must be DoNotSchedule. For example, in a 3-zone cluster, MaxSkew is set to 2, MinDomains is set to 5 and pods with the same labelSelector spread as 2/2/2: | zone1 | zone2 | zone3 | | P P | P P | P P | The number of domains is less than 5(MinDomains), so "global minimum" is treated as 0. In this situation, new pod with the same labelSelector cannot be scheduled, because computed skew will be 3(3 - 0) if new Pod is scheduled to any of the three zones, it will violate MaxSkew.
`nodeAffinityPolicy`	`string`	NodeAffinityPolicy indicates how we will treat Pod's nodeAffinity/nodeSelector when calculating pod topology spread skew. Options are:

Property	Type	Description
		• Honor: only nodes matching nodeAffinity/nodeSelector are included in the calculations. • Ignore: nodeAffinity/nodeSelector are ignored. All nodes are included in the calculations. If this value is nil, the behavior is equivalent to the Honor policy. This is a beta-level feature default enabled by the NodeInclusionPolicyInPodTopologySpread feature flag.
`nodeTaintsPolicy`	`string`	NodeTaintsPolicy indicates how we will treat node taints when calculating pod topology spread skew. Options are: • Honor: nodes without taints, along with tainted nodes for which the incoming pod has a toleration, are included. • Ignore: node taints are ignored. All nodes are included. If this value is nil, the behavior is equivalent to the Ignore policy. This is a beta-level feature default enabled by the NodeInclusionPolicyInPodTopologySpread feature flag.
`topologyKey`	`string`	TopologyKey is the key of node labels. Nodes that have a label with this key and identical values are considered to be in the same topology. We consider each <key, value> as a "bucket", and try to put balanced number of pods into each bucket.

Property	Type	Description
		We define a domain as a particular instance of a topology. Also, we define an eligible domain as a domain whose nodes meet the requirements of nodeAffinityPolicy and nodeTaintsPolicy. e.g. If TopologyKey is "kubernetes.io/hostname", each Node is a domain of that topology. And, if TopologyKey is "topology.kubernetes.io/zone", each zone is a domain of that topology. It's a required field.
`whenUnsatisfiable`	`string`	WhenUnsatisfiable indicates how to deal with a pod if it doesn't satisfy the spread constraint. • DoNotSchedule (default) tells the scheduler not to schedule it. • ScheduleAnyway tells the scheduler to schedule the pod in any location, but giving higher precedence to topologies that would help reduce the skew. A constraint is considered "Unsatisfiable" for an incoming pod if and only if every possible node assignment for that pod would violate "MaxSkew" on some topology. For example, in a 3-zone cluster, MaxSkew is set to 1, and pods with the same labelSelector spread as 3/1/1: | zone1 | zone2 | zone3 | | P P P | P | P | If WhenUnsatisfiable is set to DoNotSchedule, incoming pod can only be scheduled to zone2(zone3) to become 3/2/1(3/1/2) as ActualSkew(2-1) on zone2(zone3) satisfies MaxSkew(1). In other words, the cluster can still be imbalanced, but scheduler won't make it *more* imbalanced. It's a required field.

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector

Description

LabelSelector is used to find matching pods. Pods that match this label selector are counted to determine the number of pods in their corresponding topology domain.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.topologySpreadConstraints[].labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.topologySpreadConstraints[].matchLabelKeys

Description

MatchLabelKeys is a set of pod label keys to select the pods over which spreading will be calculated. The keys are used to lookup values from the incoming pod labels, those key-value labels are ANDed with labelSelector to select the group of existing pods over which spreading will be calculated for the incoming pod. The same key is forbidden to exist in both MatchLabelKeys and LabelSelector. MatchLabelKeys cannot be set when LabelSelector isn't set. Keys that don't exist in the incoming pod labels will be ignored. A null or empty list means only match against labelSelector. This is a beta field and requires the MatchLabelKeysInPodTopologySpread feature gate to be enabled (enabled by default).

Type

`array`

.spec.workloads[].template.spec.topologySpreadConstraints[].matchLabelKeys[]

Type

`string`

.spec.workloads[].template.spec.volumes

Description

List of volumes that can be mounted by containers belonging to the pod. More info: https://kubernetes.io/docs/concepts/storage/volumes

Type

`array`

.spec.workloads[].template.spec.volumes[]

Description

Volume represents a named volume in a pod that may be accessed by any container in the pod.

Type

`object`

Required

`name`

Property	Type	Description
`awsElasticBlockStore`	`object`	awsElasticBlockStore represents an AWS Disk reso a kubelet's host machine and then exposed to the p https://kubernetes.io/docs/concepts/storage/volume ↗

Property	Type	Description
`azureDisk`	`object`	azureDisk represents an Azure Data Disk mount on mount to the pod.
`azureFile`	`object`	azureFile represents an Azure File Service mount or mount to the pod.
`cephfs`	`object`	cephFS represents a Ceph FS mount on the host tha lifetime
`cinder`	`object`	cinder represents a cinder volume attached and mou machine. More info: https://examples.k8s.io/mysql-c ↗
`configMap`	`object`	configMap represents a configMap that should popu
`csi`	`object`	csi (Container Storage Interface) represents epheme handled by certain external CSI drivers (Beta feature
`downwardAPI`	`object`	downwardAPI represents downward API about the p populate this volume

Property	Type	Description
`emptyDir`	`object`	emptyDir represents a temporary directory that shar More info: https://kubernetes.io/docs/concepts/stora ↗
`ephemeral`	`object`	ephemeral represents a volume that is handled by a The volume's lifecycle is tied to the pod that defines before the pod starts, and deleted when the pod is r Use this if: a) the volume is only needed while the p normal volumes like restoring from snapshot or capa needed, c) the storage driver is specified through a s the storage driver supports dynamic volume provisio PersistentVolumeClaim (see EphemeralVolumeSou information on the connection between this volume t PersistentVolumeClaim). Use PersistentVolumeClaim or one of the vendor-sp volumes that persist for longer than the lifecycle of a Use CSI for light-weight local ephemeral volumes if t meant to be used that way - see the documentation information. A pod can use both types of ephemeral volumes and at the same time.
`fc`	`object`	fc represents a Fibre Channel resource that is attach machine and then exposed to the pod.

Property	Type	Description
`flexVolume`	`object`	flexVolume represents a generic volume resource th provisioned/attached using an exec based plugin.
`flocker`	`object`	flocker represents a Flocker volume attached to a ku This depends on the Flocker control service being ru
`gcePersistentDisk`	`object`	gcePersistentDisk represents a GCE Disk resource kubelet's host machine and then exposed to the pod https://kubernetes.io/docs/concepts/storage/volumes
`gitRepo`	`object`	gitRepo represents a git repository at a particular rev GitRepo is deprecated. To provision a container with EmptyDir into an InitContainer that clones the repo u the EmptyDir into the Pod's container.
`glusterfs`	`object`	glusterfs represents a Glusterfs mount on the host th lifetime. More info: https://examples.k8s.io/volumes/ ↗
`hostPath`	`object`	hostPath represents a pre-existing file or directory o that is directly exposed to the container. This is gene agents or other privileged things that are allowed to Most containers will NOT need this. More info: https://kubernetes.io/docs/concepts/storage/volumes

Property	Type	Description
`image`	`object`	image represents an OCI object (a container image mounted on the kubelet's host machine. The volume startup depending on which PullPolicy value is provi • Always: the kubelet always attempts to pull the re creation will fail If the pull fails. • Never: the kubelet never pulls the reference and image or artifact. Container creation will fail if the present. • IfNotPresent: the kubelet pulls if the reference isr disk. Container creation will fail if the reference is pull fails. The volume gets re-resolved if the pod gets deleted means that new remote content will become availab failure to resolve or pull the image during pod startup from starting and may add significant latency. Failure normal volume backoff and will be reported on the p message. The types of objects that may be mounted defined by the container runtime implementation on minimum must include all valid types supported by tl field. The OCI object gets mounted in a single direct (spec.containers[*].volumeMounts.mountPath) by me *layers in the same way as for container images. The mounted read-only (ro) and non-executable files (no mounts for containers are not supported (spec.containers[*].volumeMounts.subpath). The field spec.securityContext.fsGroupChangePolicy has no e type.

Property	Type	Description
`iscsi`	`object`	iscsi represents an ISCSI Disk resource that is attac machine and then exposed to the pod. More info: https://examples.k8s.io/volumes/iscsi/README.md ↗
`name`	`string`	name of the volume. Must be a DNS_LABEL and un More info: https://kubernetes.io/docs/concepts/overv objects/names/#names ↗
`nfs`	`object`	nfs represents an NFS mount on the host that share info: https://kubernetes.io/docs/concepts/storage/vol
`persistentVolumeClaim`	`object`	persistentVolumeClaimVolumeSource represents a r PersistentVolumeClaim in the same namespace. Mo https://kubernetes.io/docs/concepts/storage/persiste volumes#persistentvolumeclaims ↗
`photonPersistentDisk`	`object`	photonPersistentDisk represents a PhotonController attached and mounted on kubelets host machine
`portworxVolume`	`object`	portworxVolume represents a portworx volume attac kubelets host machine
`projected`	`object`	projected items for all in one resources secrets, conf downward API

Property	Type	Description
`quobyte`	`object`	quobyte represents a Quobyte mount on the host tha lifetime
`rbd`	`object`	rbd represents a Rados Block Device mount on the pod's lifetime. More info: https://examples.k8s.io/volumes/rbd/README.md ↗
`scaleIO`	`object`	scaleIO represents a ScaleIO persistent volume atta Kubernetes nodes.
`secret`	`object`	secret represents a secret that should populate this https://kubernetes.io/docs/concepts/storage/volumes
`storageos`	`object`	storageOS represents a StorageOS volume attache Kubernetes nodes.
`vsphereVolume`	`object`	vsphereVolume represents a vSphere volume attach kubelets host machine

.spec.workloads[].template.spec.volumes[].awsElasticBlockStore

Description

awsElasticBlockStore represents an AWS Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info:

https://kubernetes.io/docs/concepts/storage/volumes#awselasticblockstore

Type

`object`

Required

`volumeID`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type of the volume that you want to mou Ensure that the filesystem type is supported by the host operatir Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if ur More info: https://kubernetes.io/docs/concepts/storage/volumes#awselastic ↗
`partition`	`integer`	partition is the partition in the volume that you want to mount. If the default is to mount by volume name. Examples: For volume you specify the partition as "1". Similarly, the volume partition for is "0" (or you can leave the property empty).
`readOnly`	`boolean`	readOnly value true will force the readOnly setting in VolumeMo info: https://kubernetes.io/docs/concepts/storage/volumes#awselastic ↗
`volumeID`	`string`	volumeID is unique ID of the persistent disk resource in AWS (A EBS volume). More info: https://kubernetes.io/docs/concepts/storage/volumes#awselastic ↗

.spec.workloads[].template.spec.volumes[].azureDisk

Description

azureDisk represents an Azure Data Disk mount on the host and bind mount to the pod.

Type

`object`

Required

`diskName` `diskURI`

Property	Type	Description
`cachingMode`	`string`	cachingMode is the Host Caching mode: None, Read Only, Read Write.
`diskName`	`string`	diskName is the Name of the data disk in the blob storage
`diskURI`	`string`	diskURI is the URI of data disk in the blob storage
`fsType`	`string`	fsType is Filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`kind`	`string`	kind expected values are Shared: multiple blob disks per storage account Dedicated: single blob disk per storage account Managed: azure managed data disk (only in managed availability set). defaults to shared

Property	Type	Description
`readOnly`	`boolean`	readOnly Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.

.spec.workloads[].template.spec.volumes[].azureFile

Description

azureFile represents an Azure File Service mount on the host and bind mount to the pod.

Type

`object`

Required

`secretName` `shareName`

Property	Type	Description
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretName`	`string`	secretName is the name of secret that contains Azure Storage Account Name and Key
`shareName`	`string`	shareName is the azure share Name

.spec.workloads[].template.spec.volumes[].cephfs

Description

cephFS represents a Ceph FS mount on the host that shares a pod's lifetime

Type

`object`

Required

`monitors`

Property	Type	Description
`monitors`	`array`	monitors is Required: Monitors is a collection of Ceph monitors More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
`path`	`string`	path is Optional: Used as the mounted root, rather than the full Ceph tree, default is /
`readOnly`	`boolean`	readOnly is Optional: Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
`secretFile`	`string`	secretFile is Optional: SecretFile is the path to key ring for User, default is /etc/ceph/user.secret More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗

Property	Type	Description
`secretRef`	`object`	secretRef is Optional: SecretRef is reference to the authentication secret for User, default is empty. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
`user`	`string`	user is optional: User is the rados user name, default is admin More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗

.spec.workloads[].template.spec.volumes[].cephfs.monitors

Description

monitors is Required: Monitors is a collection of Ceph monitors More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it

Type

`array`

.spec.workloads[].template.spec.volumes[].cephfs.monitors[]

Type

`string`

.spec.workloads[].template.spec.volumes[].cephfs.secretRef

Description

secretRef is Optional: SecretRef is reference to the authentication secret for User, default is empty. More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].cinder

Description

cinder represents a cinder volume attached and mounted on kubelets host machine. More info: https://examples.k8s.io/mysql-cinder-pd/README.md

Type

`object`

Required

`volumeID`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗
`secretRef`	`object`	secretRef is optional: points to a secret object containing parameters used to connect to OpenStack.
`volumeID`	`string`	volumeID used to identify the volume in cinder. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗

.spec.workloads[].template.spec.volumes[].cinder.secretRef

Description

secretRef is optional: points to a secret object containing parameters used to connect to OpenStack.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].configMap

Description

configMap represents a configMap that should populate this volume

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	defaultMode is optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`items`	`array`	items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified

Property	Type	Description
		paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	optional specify whether the ConfigMap or its keys must be defined

.spec.workloads[].template.spec.volumes[].configMap.items

Description

items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].configMap.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].csi

Description

csi (Container Storage Interface) represents ephemeral storage that is handled by certain external CSI drivers (Beta feature).

Type

`object`

Required

`driver`

Property	Type	Description
`driver`	`string`	driver is the name of the CSI driver that handles this volume. Consult with your admin for the correct name as registered in the cluster.
`fsType`	`string`	fsType to mount. Ex. "ext4", "xfs", "ntfs". If not provided, the empty value is passed to the associated CSI driver which will determine the default filesystem to apply.
`nodePublishSecretRef`	`object`	nodePublishSecretRef is a reference to the secret object containing sensitive information to pass to the CSI driver to complete the CSI NodePublishVolume and NodeUnpublishVolume calls. This field is optional, and may be empty if no secret is required. If the secret object contains more than one secret, all secret references are passed.
`readOnly`	`boolean`	readOnly specifies a read-only configuration for the volume. Defaults to false (read/write).

Property	Type	Description
`volumeAttributes`	`object`	volumeAttributes stores driver-specific properties that are passed to the CSI driver. Consult your driver's documentation for supported values.

.spec.workloads[].template.spec.volumes[].csi.nodePublishSecretRef

Description

nodePublishSecretRef is a reference to the secret object containing sensitive information to pass to the CSI driver to complete the CSI NodePublishVolume and NodeUnpublishVolume calls. This field is optional, and may be empty if no secret is required. If the secret object contains more than one secret, all secret references are passed.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].csi.volumeAttributes

Description

volumeAttributes stores driver-specific properties that are passed to the CSI driver. Consult your driver's documentation for supported values.

Type

`object`

.spec.workloads[].template.spec.volumes[].downwardAPI

Description

downwardAPI represents downward API about the pod that should populate this volume

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	Optional: mode bits to use on created files by default. Must be a Optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`items`	`array`	Items is a list of downward API volume file

.spec.workloads[].template.spec.volumes[].downwardAPI.items

Description

Items is a list of downward API volume file

Type

`array`

.spec.workloads[].template.spec.volumes[].downwardAPI.items[]

Description

DownwardAPIVolumeFile represents information to create the file containing the pod field

Type

`object`

Required

`path`

Property	Type	Description
`fieldRef`	`object`	Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.
`mode`	`integer`	Optional: mode bits used to set permissions on this file, must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.

Property	Type	Description
`path`	`string`	Required: Path is the relative path name of the file to be created. Must not be absolute or contain the '..' path. Must be utf-8 encoded. The first item of the relative path must not start with '..'
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

.spec.workloads[].template.spec.volumes[].downwardAPI.items[].fieldRef

Description

Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".

Property	Type	Description
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.volumes[].downwardAPI.items[].resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.volumes[].emptyDir

Description

emptyDir represents a temporary directory that shares a pod's lifetime. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir

Type

`object`

Property	Type	Description
`medium`	`string`	medium represents what type of storage medium should back this directory. The default is "" which means to use the node's default medium. Must be an empty string (default) or Memory. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir ↗
`sizeLimit`		sizeLimit is the total amount of local storage required for this EmptyDir volume. The size limit is also applicable for memory medium. The maximum usage on memory medium EmptyDir would be the minimum value between the SizeLimit specified here and the sum of memory limits of all containers in a pod. The default is nil which means that the limit is undefined. More info: https://kubernetes.io/docs/concepts/storage/volumes#emptydir ↗

.spec.workloads[].template.spec.volumes[].ephemeral

Description

ephemeral represents a volume that is handled by a cluster storage driver. The volume's lifecycle is tied to the pod that defines it - it will be created before the pod starts, and deleted when the pod is removed. Use this if: a) the volume is only needed while the pod runs, b) features of normal volumes like restoring from snapshot or capacity tracking are needed, c) the storage driver is specified through a storage class, and d) the storage driver supports dynamic volume provisioning through a PersistentVolumeClaim (see

EphemeralVolumeSource for more information on the connection between this volume type and PersistentVolumeClaim). Use PersistentVolumeClaim or one of the vendor-specific APIs for volumes that persist for longer than the lifecycle of an individual pod. Use CSI for light-weight local ephemeral volumes if the CSI driver is meant to be used that way - see the documentation of the driver for more information. A pod can use both types of ephemeral volumes and persistent volumes at the same time.

Type

`object`

Property	Type	Description
`volumeClaimTemplate`	`object`	Will be used to create a stand-alone PVC to provision the volume. The pod in which this EphemeralVolumeSource is embedded will be the owner of the PVC, i.e. the PVC will be deleted together with the pod. The name of the PVC will be `<pod name>-<volume name>` where `<volume name>` is the name from the `PodSpec.Volumes` array entry. Pod validation will reject the pod if the concatenated name is not valid for a PVC (for example, too long). An existing PVC with that name that is not owned by the pod will *not* be used for the pod to avoid using an unrelated volume by mistake. Starting the pod is then blocked until the unrelated PVC is removed. If such a pre-created PVC is meant to be used by the pod, the PVC has to updated with an owner reference to the pod once the pod exists. Normally this should not be necessary, but it may be useful when manually reconstructing a broken cluster. This field is read-only and no changes will be made by Kubernetes to the PVC after it has been created.

Property	Type	Description
		Required, must not be nil.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate

Description

Will be used to create a stand-alone PVC to provision the volume. The pod in which this EphemeralVolumeSource is embedded will be the owner of the PVC, i.e. the PVC will be deleted together with the pod. The name of the PVC will be `<pod name>-<volume name>` where `<volume name>` is the name from the `PodSpec.Volumes` array entry. Pod validation will reject the pod if the concatenated name is not valid for a PVC (for example, too long). An existing PVC with that name that is not owned by the pod will *not* be used for the pod to avoid using an unrelated volume by mistake. Starting the pod is then blocked until the unrelated PVC is removed. If such a pre-created PVC is meant to be used by the pod, the PVC has to updated with an owner reference to the pod once the pod exists. Normally this should not be necessary, but it may be useful when manually reconstructing a broken cluster. This field is read-only and no changes will be made by Kubernetes to the PVC after it has been created. Required, must not be nil.

Type

`object`

Required

`spec`

Property	Type	Description
`metadata`	`ObjectMeta` ↗	May contain labels and annotations that will be copied into the PVC when creating it. No other fields are allowed and will be rejected during validation.

Property	Type	Description
`spec`	`object`	The specification for the PersistentVolumeClaim. The entire content is copied unchanged into the PVC that gets created from this template. The same fields as in a PersistentVolumeClaim are also valid here.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec

Description

The specification for the PersistentVolumeClaim. The entire content is copied unchanged into the PVC that gets created from this template. The same fields as in a PersistentVolumeClaim are also valid here.

Type

`object`

Property	Type	Description
`accessModes`	`array`	accessModes contains the desired access mod volume should have. More info: https://kubernetes.io/docs/concepts/storage/per volumes#access-modes-1 ↗
`dataSource`	`object`	dataSource field can be used to specify either: • An existing VolumeSnapshot object (snapshot.storage.k8s.io/VolumeSnapshot) • An existing PVC (PersistentVolumeClaim) If provisioner or an external controller can sup the specified data source, it will create a nev

Property	Type	Description
		volume based on the contents of the specifie source. When the AnyVolumeDataSource fe gate is enabled, dataSource contents will be to dataSourceRef, and dataSourceRef conte be copied to dataSource when dataSourceRef.namespace is not specified. namespace is specified, then dataSourceRe not be copied to dataSource.
`dataSourceRef`	`object`	dataSourceRef specifies the object from which t populate the volume with data, if a non-empty v is desired. This may be any object from a non-e API group (non core object) or a PersistentVolumeClaim object. When this field i specified, volume binding will only succeed if th of the specified object matches some installed v populator or dynamic provisioner. This field will the functionality of the dataSource field and as s both fields are non-empty, they must have the s value. For backwards compatibility, when name isn't specified in dataSourceRef, both fields (dataSource and dataSourceRef) will be set to t same value automatically if one of them is empt the other is non-empty. When namespace is sp in dataSourceRef, dataSource isn't set to the sa value and must be empty. There are three impo differences between dataSource and dataSourc • While dataSource only allows two specific ty objects, dataSourceRef allows any non-core as well as PersistentVolumeClaim objects. • While dataSource ignores disallowed values (dropping them), dataSourceRef preserves a

Property	Type	Description
		values, and generates an error if a disallowe value is specified. • While dataSource only allows local objects, dataSourceRef allows objects in any names (Beta) Using this field requires the AnyVolumeDataSource feature gate to be er (Alpha) Using the namespace field of dataSourceRef requires the CrossNamespaceVolumeDataSource featur to be enabled.
`resources`	`object`	resources represents the minimum resources th volume should have. If RecoverVolumeExpansionFailure feature is ena users are allowed to specify resource requireme that are lower than previous value but must still higher than capacity recorded in the status field claim. More info: https://kubernetes.io/docs/concepts/storage/per volumes#resources ↗
`selector`	`object`	selector is a label query over volumes to consid binding.
`storageClassName`	`string`	storageClassName is the name of the StorageC required by the claim. More info: https://kubernetes.io/docs/concepts/storage/per volumes#class-1 ↗

Property	Type	Description
`volumeAttributesClassName`	`string`	volumeAttributesClassName may be used to se VolumeAttributesClass used by this claim. If spe the CSI driver will create or update the volume attributes defined in the corresponding VolumeAttributesClass. This has a different pur than storageClassName, it can be changed afte claim is created. An empty string value means t VolumeAttributesClass will be applied to the cla it's not allowed to reset this field to empty string is set. If unspecified and the PersistentVolumeC unbound, the default VolumeAttributesClass wil by the persistentvolume controller if it exists. If t resource referred to by volumeAttributesClass d not exist, this PersistentVolumeClaim will be se Pending state, as reflected by the modifyVolum field, until such as a resource exists. More info: https://kubernetes.io/docs/concepts/storage/vol attributes-classes/↗ (Beta) Using this field requ the VolumeAttributesClass feature gate to be en (off by default).
`volumeMode`	`string`	volumeMode defines what type of volume is req by the claim. Value of Filesystem is implied whe included in claim spec.
`volumeName`	`string`	volumeName is the binding reference to the PersistentVolume backing this claim.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.accessModes

Description

accessModes contains the desired access modes the volume should have. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#access-modes-1

Type

`array`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.accessModes[]

Type

`string`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.dataSource

Description

dataSource field can be used to specify either: * An existing VolumeSnapshot object (snapshot.storage.k8s.io/VolumeSnapshot) * An existing PVC (PersistentVolumeClaim) If the provisioner or an external controller can support the specified data source, it will create a new volume based on the contents of the specified data source. When the AnyVolumeDataSource feature gate is enabled, dataSource contents will be copied to dataSourceRef, and dataSourceRef contents will be copied to dataSource when dataSourceRef.namespace is not specified. If the namespace is specified, then dataSourceRef will not be copied to dataSource.

Type

`object`

Required

`kind` `name`

Property	Type	Description
`apiGroup`	`string`	APIGroup is the group for the resource being referenced. If APIGroup is not specified, the specified Kind must be in the core API group. For any other third-party types, APIGroup is required.
`kind`	`string`	Kind is the type of resource being referenced
`name`	`string`	Name is the name of resource being referenced

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.dataSourceRef

Description

dataSourceRef specifies the object from which to populate the volume with data, if a non-empty volume is desired. This may be any object from a non-empty API group (non core object) or a PersistentVolumeClaim object. When this field is specified, volume binding will only succeed if the type of the specified object matches some installed volume populator or dynamic provisioner. This field will replace the functionality of the dataSource field and as such if both fields are non-empty, they must have the same value. For backwards compatibility, when namespace isn't specified in dataSourceRef, both fields (dataSource and dataSourceRef) will be set to the same value automatically if one of them is empty and the other is non-empty. When namespace is specified in dataSourceRef, dataSource isn't set to the same value and must be empty. There are three important differences between dataSource and dataSourceRef: * While dataSource only allows two specific types of objects, dataSourceRef allows any non-core object, as well as PersistentVolumeClaim objects. * While dataSource ignores disallowed values (dropping them), dataSourceRef preserves all values, and generates an error if a disallowed value is specified. * While dataSource only allows local objects, dataSourceRef allows objects in any namespaces. (Beta) Using this field requires the AnyVolumeDataSource feature gate to be enabled.

(Alpha) Using the namespace field of dataSourceRef requires the CrossNamespaceVolumeDataSource feature gate to be enabled.

Type

`object`

Required

`kind` `name`

Property	Type	Description
`apiGroup`	`string`	APIGroup is the group for the resource being referenced. If APIGroup is not specified, the specified Kind must be in the core API group. For any other third-party types, APIGroup is required.
`kind`	`string`	Kind is the type of resource being referenced
`name`	`string`	Name is the name of resource being referenced
`namespace`	`string`	Namespace is the namespace of resource being referenced Note that when a namespace is specified, a gateway.networking.k8s.io/ReferenceGrant object is required in the referent namespace to allow that namespace's owner to accept the reference. See the ReferenceGrant documentation for details. (Alpha) This field requires the CrossNamespaceVolumeDataSource feature gate to be enabled.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources

Description

resources represents the minimum resources the volume should have. If RecoverVolumeExpansionFailure feature is enabled users are allowed to specify resource requirements that are lower than previous value but must still be higher than capacity recorded in the status field of the claim. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#resources

Type

`object`

Property	Type	Description
`limits`	`object`	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗
`requests`	`object`	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources.limits

Description

Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources.requests

Description

Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. Requests cannot exceed Limits. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/

Type

`object`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector

Description

selector is a label query over volumes to consider for binding.

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.

Property	Type	Description
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.volumes[].fc

Description

fc represents a Fibre Channel resource that is attached to a kubelet's host machine and then exposed to the pod.

Type

`object`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`lun`	`integer`	lun is Optional: FC target lun number
`readOnly`	`boolean`	readOnly is Optional: Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in

Property	Type	Description
		VolumeMounts.
`targetWWNs`	`array`	targetWWNs is Optional: FC target worldwide names (WWNs)
`wwids`	`array`	wwids Optional: FC volume world wide identifiers (wwids) Either wwids or combination of targetWWNs and lun must be set, but not both simultaneously.

.spec.workloads[].template.spec.volumes[].fc.targetWWNs

Description

targetWWNs is Optional: FC target worldwide names (WWNs)

Type

`array`

.spec.workloads[].template.spec.volumes[].fc.targetWWNs[]

Type

`string`

.spec.workloads[].template.spec.volumes[].fc.wwids

Description

wwids Optional: FC volume world wide identifiers (wwids) Either wwids or combination of targetWWNs and lun must be set, but not both simultaneously.

Type

`array`

.spec.workloads[].template.spec.volumes[].fc.wwids[]

Type

`string`

.spec.workloads[].template.spec.volumes[].flexVolume

Description

flexVolume represents a generic volume resource that is provisioned/attached using an exec based plugin.

Type

`object`

Required

`driver`

Property	Type	Description
`driver`	`string`	driver is the name of the driver to use for this volume.
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". The default filesystem depends on FlexVolume script.
`options`	`object`	options is Optional: this field holds extra command options if any.

Property	Type	Description
`readOnly`	`boolean`	readOnly is Optional: defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretRef`	`object`	secretRef is Optional: secretRef is reference to the secret object containing sensitive information to pass to the plugin scripts. This may be empty if no secret object is specified. If the secret object contains more than one secret, all secrets are passed to the plugin scripts.

.spec.workloads[].template.spec.volumes[].flexVolume.options

Description

options is Optional: this field holds extra command options if any.

Type

`object`

.spec.workloads[].template.spec.volumes[].flexVolume.secretRef

Description

secretRef is Optional: secretRef is reference to the secret object containing sensitive information to pass to the plugin scripts. This may be empty if no secret object is specified. If the secret object contains more than one secret, all secrets are passed to the plugin scripts.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].flocker

Description

flocker represents a Flocker volume attached to a kubelet's host machine. This depends on the Flocker control service being running

Type

`object`

Property	Type	Description
`datasetName`	`string`	datasetName is Name of the dataset stored as metadata -> name on the dataset for Flocker should be considered as deprecated
`datasetUUID`	`string`	datasetUUID is the UUID of the dataset. This is unique identifier of a Flocker dataset

.spec.workloads[].template.spec.volumes[].gcePersistentDisk

Description

gcePersistentDisk represents a GCE Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersistentdisk

Type

`object`

Required

`pdName`

Property	Type	Description
`fsType`	`string`	fsType is filesystem type of the volume that you want to mount. Ensure that the filesystem type is supported by the host operatir system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "e unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗
`partition`	`integer`	partition is the partition in the volume that you want to mount. If omitted, the default is to mount by volume name. Examples: For volume /dev/sda1, you specify the partition as "1". Similarly, the partition for /dev/sda is "0" (or you can leave the property empty info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗
`pdName`	`string`	pdName is unique name of the PD resource in GCE. Used to ide the disk in GCE. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly here will force the ReadOnly setting in VolumeMounts Defaults to false. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗

.spec.workloads[].template.spec.volumes[].gitRepo

Description

gitRepo represents a git repository at a particular revision. DEPRECATED: GitRepo is deprecated. To provision a container with a git repo, mount an EmptyDir into an InitContainer that clones the repo using git, then mount the EmptyDir into the Pod's container.

Type

`object`

Required

`repository`

Property	Type	Description
`directory`	`string`	directory is the target directory name. Must not contain or start with '..'. If '.' is supplied, the volume directory will be the git repository. Otherwise, if specified, the volume will contain the git repository in the subdirectory with the given name.
`repository`	`string`	repository is the URL

Property	Type	Description
`revision`	`string`	revision is the commit hash for the specified revision.

.spec.workloads[].template.spec.volumes[].glusterfs

Description

glusterfs represents a Glusterfs mount on the host that shares a pod's lifetime. More info: https://examples.k8s.io/volumes/glusterfs/README.md

Type

`object`

Required

`endpoints` `path`

Property	Type	Description
`endpoints`	`string`	endpoints is the endpoint name that details Glusterfs topology. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗
`path`	`string`	path is the Glusterfs volume path. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly here will force the Glusterfs volume to be mounted with read-only permissions. Defaults to false. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗

.spec.workloads[].template.spec.volumes[].hostPath

Description

hostPath represents a pre-existing file or directory on the host machine that is directly exposed to the container. This is generally used for system agents or other privileged things that are allowed to see the host machine. Most containers will NOT need this. More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath

Type

`object`

Required

`path`

Property	Type	Description
`path`	`string`	path of the directory on the host. If the path is a symlink, it will follow the link to the real path. More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath ↗
`type`	`string`	type for HostPath Volume Defaults to "" More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath ↗

.spec.workloads[].template.spec.volumes[].image

Description

image represents an OCI object (a container image or artifact) pulled and mounted on the kubelet's host machine. The volume is resolved at pod startup depending on which PullPolicy value is provided: - Always: the kubelet always attempts to pull the reference. Container creation will fail If the pull fails. - Never: the kubelet never pulls the reference and only uses a local image or artifact. Container creation will fail if the reference isn't present. - IfNotPresent: the kubelet pulls if the reference isn't already present on disk. Container creation will fail if the reference isn't present and the pull fails. The volume gets re-resolved if the pod gets deleted and recreated, which means that new remote content will become available on pod recreation. A failure to resolve or pull the image during pod startup will block containers from starting and may add significant latency. Failures will be retried using normal volume backoff and will be reported on the pod reason and message. The types of objects that may be mounted by this volume are defined by the container runtime implementation on a host machine and at minimum must include all valid types supported by the container image field. The OCI object gets mounted in a single directory (spec.containers[*].volumeMounts.mountPath) by merging the manifest layers in the same way as for container images. The volume will be mounted read-only (ro) and non-executable files (noexec). Sub path mounts for containers are not supported (spec.containers[*].volumeMounts.subpath). The field spec.securityContext.fsGroupChangePolicy has no effect on this volume type.

Type

`object`

Property	Type	Description
`pullPolicy`	`string`	Policy for pulling OCI objects. Possible values are: Always: the kubelet always attempts to pull the reference. Container creation will fail If the pull fails. Never: the kubelet never pulls the reference and only uses a local image or artifact. Container creation will fail if the reference isn't present. IfNotPresent: the kubelet pulls if the reference isn't already present on disk. Container creation will fail if the reference isn't present and the pull fails. Defaults to Always if :latest tag is specified, or IfNotPresent otherwise.
`reference`	`string`	Required: Image or artifact reference to be used. Behaves in the same way as pod.spec.containers[*].image. Pull secrets will be assembled in the same way as for the container image by looking up node credentials, SA image pull secrets, and pod spec image pull secrets. More info: https://kubernetes.io/docs/concepts/containers/images ↗ This field is optional to allow higher level config management to default or override container images in workload controllers like Deployments and StatefulSets.

.spec.workloads[].template.spec.volumes[].iscsi

Description

iscsi represents an ISCSI Disk resource that is attached to a kubelet's host machine and then exposed to the pod. More info: https://examples.k8s.io/volumes/iscsi/README.md

Type

`object`

Required

`iqn` `lun` `targetPortal`

Property	Type	Description
`chapAuthDiscovery`	`boolean`	chapAuthDiscovery defines whether support iSCSI Discovery CHAP authentication
`chapAuthSession`	`boolean`	chapAuthSession defines whether support iSCSI Sessior CHAP authentication
`fsType`	`string`	fsType is the filesystem type of the volume that you want to mount. Tip: Ensure that the filesystem type is supporte by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#isc ↗
`initiatorName`	`string`	initiatorName is the custom iSCSI Initiator Name. If initiatorName is specified with iscsiInterface simultaneously, new iSCSI interface : will be created for the connection.
`iqn`	`string`	iqn is the target iSCSI Qualified Name.
`iscsiInterface`	`string`	iscsiInterface is the interface Name that uses an iSCSI transport. Defaults to 'default' (tcp).
`lun`	`integer`	lun represents iSCSI Target Lun number.

Property	Type	Description
`portals`	`array`	portals is the iSCSI Target Portal List. The portal is either an IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).
`readOnly`	`boolean`	readOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false.
`secretRef`	`object`	secretRef is the CHAP Secret for iSCSI target and initiato authentication
`targetPortal`	`string`	targetPortal is iSCSI Target Portal. The Portal is either ar IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).

.spec.workloads[].template.spec.volumes[].iscsi.portals

Description

portals is the iSCSI Target Portal List. The portal is either an IP or ip_addr:port if the port is other than default (typically TCP ports 860 and 3260).

Type

`array`

.spec.workloads[].template.spec.volumes[].iscsi.portals[]

Type

`string`

.spec.workloads[].template.spec.volumes[].iscsi.secretRef

Description

secretRef is the CHAP Secret for iSCSI target and initiator authentication

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].nfs

Description

nfs represents an NFS mount on the host that shares a pod's lifetime More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs

Type

`object`

Required

`path` `server`

Property	Type	Description
`path`	`string`	path that is exported by the NFS server. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly here will force the NFS export to be mounted with read-only permissions. Defaults to false. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗
`server`	`string`	server is the hostname or IP address of the NFS server. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗

.spec.workloads[].template.spec.volumes[].persistentVolumeClaim

Description

persistentVolumeClaimVolumeSource represents a reference to a PersistentVolumeClaim in the same namespace. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#persistentvolumeclaims

Type

`object`

Required

`claimName`

Property	Type	Description
`claimName`	`string`	claimName is the name of a PersistentVolumeClaim in the same namespace as the pod using this volume. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#persistentvolumeclaims ↗

Property	Type	Description
`readOnly`	`boolean`	readOnly Will force the ReadOnly setting in VolumeMounts. Default false.

.spec.workloads[].template.spec.volumes[].photonPersistentDisk

Description

photonPersistentDisk represents a PhotonController persistent disk attached and mounted on kubelets host machine

Type

`object`

Required

`pdID`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`pdID`	`string`	pdID is the ID that identifies Photon Controller persistent disk

.spec.workloads[].template.spec.volumes[].portworxVolume

Description

portworxVolume represents a portworx volume attached and mounted on kubelets host machine

Type

`object`

Required

`volumeID`

Property	Type	Description
`fsType`	`string`	fSType represents the filesystem type to mount Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs". Implicitly inferred to be "ext4" if unspecified.
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`volumeID`	`string`	volumeID uniquely identifies a Portworx volume

.spec.workloads[].template.spec.volumes[].projected

Description

projected items for all in one resources secrets, configmaps, and downward API

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	defaultMode are the mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`sources`	`array`	sources is the list of volume projections. Each entry in this list handles one source.

.spec.workloads[].template.spec.volumes[].projected.sources

Description

sources is the list of volume projections. Each entry in this list handles one source.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[]

Description

Projection that may be projected along with other supported volume types. Exactly one of these fields must be set.

Type

`object`

Property	Type	Description
`clusterTrustBundle`	`object`	ClusterTrustBundle allows a pod to access the `.spec.trustBundle` field of ClusterTrustBundle objects in an auto-updating file. Alpha, gated by the ClusterTrustBundleProjection feature gate. ClusterTrustBundle objects can either be selected by name, or by the combination of signer name and a label selector. Kubelet performs aggressive normalization of the PEM contents written into the pod filesystem. Esoteric PEM features such as inter-block comments and block headers are stripped. Certificates are deduplicated. The ordering of certificates within the file is arbitrary, and Kubelet may change the order over time.
`configMap`	`object`	configMap information about the configMap data to project
`downwardAPI`	`object`	downwardAPI information about the downwardAPI data to project
`secret`	`object`	secret information about the secret data to project

Property	Type	Description
`serviceAccountToken`	`object`	serviceAccountToken is information about the serviceAccountToken data to project

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle

Description

ClusterTrustBundle allows a pod to access the `.spec.trustBundle` field of ClusterTrustBundle objects in an auto-updating file. Alpha, gated by the ClusterTrustBundleProjection feature gate. ClusterTrustBundle objects can either be selected by name, or by the combination of signer name and a label selector. Kubelet performs aggressive normalization of the PEM contents written into the pod filesystem. Esoteric PEM features such as inter-block comments and block headers are stripped. Certificates are deduplicated. The ordering of certificates within the file is arbitrary, and Kubelet may change the order over time.

Type

`object`

Required

`path`

Property	Type	Description
`labelSelector`	`object`	Select all ClusterTrustBundles that match this label selector. Only has effect if signerName is set. Mutually-exclusive with name. If unset, interpreted as "match nothing". If set but empty, interpreted as "match everything".

Property	Type	Description
`name`	`string`	Select a single ClusterTrustBundle by object name. Mutually-exclusive with signerName and labelSelector.
`optional`	`boolean`	If true, don't block pod startup if the referenced ClusterTrustBundle(s) aren't available. If using name, then the named ClusterTrustBundle is allowed not to exist. If using signerName, then the combination of signerName and labelSelector is allowed to match zero ClusterTrustBundles.
`path`	`string`	Relative path from the volume root to write the bundle.
`signerName`	`string`	Select all ClusterTrustBundles that match this signer name. Mutually-exclusive with name. The contents of all selected ClusterTrustBundles will be unified and deduplicated.

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector

Description

Select all ClusterTrustBundles that match this label selector. Only has effect if signerName is set. Mutually-exclusive with name. If unset, interpreted as "match nothing". If set but empty, interpreted as "match everything".

Type

`object`

Property	Type	Description
`matchExpressions`	`array`	matchExpressions is a list of label selector requirements. The requirements are ANDed.
`matchLabels`	`object`	matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions

Description

matchExpressions is a list of label selector requirements. The requirements are ANDed.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[]

Description

A label selector requirement is a selector that contains values, a key, and an operator that relates the key and values.

Type

`object`

Required

`key` `operator`

Property	Type	Description
`key`	`string`	key is the label key that the selector applies to.
`operator`	`string`	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
`values`	`array`	values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[].values

Description

values is an array of string values. If the operator is In or NotIn, the values array must be non-empty. If the operator is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.workloads[].template.spec.volumes[].projected.sources[].clusterTrustBundle.labelSelector.matchLabels

Description

matchLabels is a map of {key,value} pairs. A single {key,value} in the matchLabels map is equivalent to an element of matchExpressions, whose key field is "key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

Type

`object`

.spec.workloads[].template.spec.volumes[].projected.sources[].configMap

Description

configMap information about the configMap data to project

Type

`object`

Property	Type	Description
`items`	`array`	items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	optional specify whether the ConfigMap or its keys must be defined

.spec.workloads[].template.spec.volumes[].projected.sources[].configMap.items

Description

items if unspecified, each key-value pair in the Data field of the referenced ConfigMap will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the ConfigMap, the volume setup will

error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].configMap.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.

Property	Type	Description
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI

Description

downwardAPI information about the downwardAPI data to project

Type

`object`

Property	Type	Description
`items`	`array`	Items is a list of DownwardAPIVolume file

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items

Description

Items is a list of DownwardAPIVolume file

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items[]

Description

DownwardAPIVolumeFile represents information to create the file containing the pod field

Type

`object`

Required

`path`

Property	Type	Description
`fieldRef`	`object`	Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.
`mode`	`integer`	Optional: mode bits used to set permissions on this file, must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	Required: Path is the relative path name of the file to be created. Must not be absolute or contain the '..' path. Must be utf-8 encoded. The first item of the relative path must not start with '..'
`resourceFieldRef`	`object`	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory,

Property	Type	Description
		requests.cpu and requests.memory) are currently supported.

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items[].fieldRef

Description

Required: Selects a field of the pod: only annotations, labels, name, namespace and uid are supported.

Type

`object`

Required

`fieldPath`

Property	Type	Description
`apiVersion`	`string`	Version of the schema the FieldPath is written in terms of, defaults to "v1".
`fieldPath`	`string`	Path of the field to select in the specified API version.

.spec.workloads[].template.spec.volumes[].projected.sources[].downwardAPI.items[].resourceFieldRef

Description

Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

Type

`object`

Required

`resource`

Property	Type	Description
`containerName`	`string`	Container name: required for volumes, optional for env vars
`divisor`		Specifies the output format of the exposed resources, defaults to "1"
`resource`	`string`	Required: resource to select

.spec.workloads[].template.spec.volumes[].projected.sources[].secret

Description

secret information about the secret data to project

Type

`object`

Property	Type	Description
`items`	`array`	items if unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified

Property	Type	Description
		paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
`optional`	`boolean`	optional field specify whether the Secret or its key must be defined

.spec.workloads[].template.spec.volumes[].projected.sources[].secret.items

Description

items if unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].projected.sources[].secret.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].projected.sources[].serviceAccountToken

Description

serviceAccountToken is information about the serviceAccountToken data to project

Type

`object`

Required

`path`

Property	Type	Description
`audience`	`string`	audience is the intended audience of the token. A recipient of a token must identify itself with an identifier specified in the audience of the token, and otherwise should reject the token. The audience defaults to the identifier of the apiserver.
`expirationSeconds`	`integer`	expirationSeconds is the requested duration of validity of the service account token. As the token approaches expiration, the kubelet volume plugin will proactively rotate the service account token. The kubelet will start trying to rotate the token if the token is older than 80 percent of its time to live or if the token is older than 24 hours.Defaults to 1 hour and must be at least 10 minutes.
`path`	`string`	path is the path relative to the mount point of the file to project the token into.

.spec.workloads[].template.spec.volumes[].quobyte

Description

quobyte represents a Quobyte mount on the host that shares a pod's lifetime

Type

`object`

Required

`registry` `volume`

Property	Type	Description
`group`	`string`	group to map volume access to Default is no group
`readOnly`	`boolean`	readOnly here will force the Quobyte volume to be mounted with read-only permissions. Defaults to false.
`registry`	`string`	registry represents a single or multiple Quobyte Registry services specified as a string as host:port pair (multiple entries are separated with commas) which acts as the central registry for volumes
`tenant`	`string`	tenant owning the given Quobyte volume in the Backend Used with dynamically provisioned Quobyte volumes, value is set by the plugin
`user`	`string`	user to map volume access to Defaults to serivceaccount user
`volume`	`string`	volume is a string that references an already created Quobyte volume by name.

.spec.workloads[].template.spec.volumes[].rbd

Description

rbd represents a Rados Block Device mount on the host that shares a pod's lifetime. More info: https://examples.k8s.io/volumes/rbd/README.md

Type

`object`

Required

`image` `monitors`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type of the volume that you want to mount. Tip: Ensure that the filesystem type is supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. More info: https://kubernetes.io/docs/concepts/storage/volumes#rbd ↗
`image`	`string`	image is the rados image name. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`keyring`	`string`	keyring is the path to key ring for RBDUser. Default is /etc/ceph/keyring. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗

Property	Type	Description
`monitors`	`array`	monitors is a collection of Ceph monitors. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`pool`	`string`	pool is the rados pool name. Default is rbd. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`readOnly`	`boolean`	readOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`secretRef`	`object`	secretRef is name of the authentication secret for RBDUser. If provided overrides keyring. Default is nil. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗
`user`	`string`	user is the rados user name. Default is admin. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it ↗

.spec.workloads[].template.spec.volumes[].rbd.monitors

Description

monitors is a collection of Ceph monitors. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it

Type

`array`

.spec.workloads[].template.spec.volumes[].rbd.monitors[]

Type

`string`

.spec.workloads[].template.spec.volumes[].rbd.secretRef

Description

secretRef is name of the authentication secret for RBDUser. If provided overrides keyring. Default is nil. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].scaleIO

Description

scaleIO represents a ScaleIO persistent volume attached and mounted on Kubernetes nodes.

Type

`object`

Required

`gateway` `secretRef` `system`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Default is "xfs".
`gateway`	`string`	gateway is the host address of the ScaleIO API Gateway.
`protectionDomain`	`string`	protectionDomain is the name of the ScaleIO Protection Domain for the configured storage.
`readOnly`	`boolean`	readOnly Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretRef`	`object`	secretRef references to the secret for ScaleIO user and other sensitive information. If this is not provided, Login operation will fail.
`sslEnabled`	`boolean`	sslEnabled Flag enable/disable SSL communication with Gateway, default false

Property	Type	Description
`storageMode`	`string`	storageMode indicates whether the storage for a volume should be ThickProvisioned or ThinProvisioned. Default is ThinProvisioned.
`storagePool`	`string`	storagePool is the ScaleIO Storage Pool associated with the protection domain.
`system`	`string`	system is the name of the storage system as configured in ScaleIO.
`volumeName`	`string`	volumeName is the name of a volume already created in the ScaleIO system that is associated with this volume source.

.spec.workloads[].template.spec.volumes[].scaleIO.secretRef

Description

secretRef references to the secret for ScaleIO user and other sensitive information. If this is not provided, Login operation will fail.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty.

Property	Type	Description
		Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].secret

Description

secret represents a secret that should populate this volume. More info: https://kubernetes.io/docs/concepts/storage/volumes#secret

Type

`object`

Property	Type	Description
`defaultMode`	`integer`	defaultMode is Optional: mode bits used to set permissions on created files by default. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. Defaults to 0644. Directories within the path are not affected by this setting. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`items`	`array`	items If unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume

Property	Type	Description
		setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.
`optional`	`boolean`	optional field specify whether the Secret or its keys must be defined
`secretName`	`string`	secretName is the name of the secret in the pod's namespace to use. More info: https://kubernetes.io/docs/concepts/storage/volumes#secret ↗

.spec.workloads[].template.spec.volumes[].secret.items

Description

items If unspecified, each key-value pair in the Data field of the referenced Secret will be projected into the volume as a file whose name is the key and content is the value. If specified, the listed keys will be projected into the specified paths, and unlisted keys will not be present. If a key is specified which is not present in the Secret, the volume setup will error unless it is marked optional. Paths must be relative and may not contain the '..' path or start with '..'.

Type

`array`

.spec.workloads[].template.spec.volumes[].secret.items[]

Description

Maps a string key to a path within a volume.

Type

`object`

Required

`key` `path`

Property	Type	Description
`key`	`string`	key is the key to project.
`mode`	`integer`	mode is Optional: mode bits used to set permissions on this file. Must be an octal value between 0000 and 0777 or a decimal value between 0 and 511. YAML accepts both octal and decimal values, JSON requires decimal values for mode bits. If not specified, the volume defaultMode will be used. This might be in conflict with other options that affect the file mode, like fsGroup, and the result can be other mode bits set.
`path`	`string`	path is the relative path of the file to map the key to. May not be an absolute path. May not contain the path element '..'. May not start with the string '..'.

.spec.workloads[].template.spec.volumes[].storageos

Description

storageOS represents a StorageOS volume attached and mounted on Kubernetes nodes.

Type

`object`

Property	Type	Description
`fsType`	`string`	fsType is the filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`readOnly`	`boolean`	readOnly defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
`secretRef`	`object`	secretRef specifies the secret to use for obtaining the StorageOS API credentials. If not specified, default values will be attempted.
`volumeName`	`string`	volumeName is the human-readable name of the StorageOS volume. Volume names are only unique within a namespace.
`volumeNamespace`	`string`	volumeNamespace specifies the scope of the volume within StorageOS. If no namespace is specified then the Pod's namespace will be used. This allows the Kubernetes name scoping to be mirrored within StorageOS for tighter integration. Set VolumeName to any name to override the default behaviour. Set to "default" if you are not using namespaces within StorageOS. Namespaces that do not pre-exist within StorageOS will be created.

.spec.workloads[].template.spec.volumes[].storageos.secretRef

Description

secretRef specifies the secret to use for obtaining the StorageOS API credentials. If not specified, default values will be attempted.

Type

`object`

Property	Type	Description
`name`	`string`	Name of the referent. This field is effectively required, but due to backwards compatibility is allowed to be empty. Instances of this type with an empty value here are almost certainly wrong. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

.spec.workloads[].template.spec.volumes[].vsphereVolume

Description

vsphereVolume represents a vSphere volume attached and mounted on kubelets host machine

Type

`object`

Required

`volumePath`

Property	Type	Description
`fsType`	`string`	fsType is filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
`storagePolicyID`	`string`	storagePolicyID is the storage Policy Based Management (SPBM) profile ID associated with the StoragePolicyName.
`storagePolicyName`	`string`	storagePolicyName is the storage Policy Based Management (SPBM) profile name.
`volumePath`	`string`	volumePath is the path that identifies vSphere volume vmdk

.status

Description

ComponentStatus defines the observed state of Connector

Type

`object`

Property	Type	Description
`annotations`	`object`	Annotations is additional Status fields for the Resource to save some additional State as well as convey more information to the user. This is

Property	Type	Description
		roughly akin to Annotations on any k8s resource, just the reconciler conveying richer information outwards.
`conditions`	`array`	Conditions the latest available observations of a resource's current state.
`observedGeneration`	`integer`	ObservedGeneration is the 'Generation' of the Service that was last processed by the controller.

.status.annotations

Description

Annotations is additional Status fields for the Resource to save some additional State as well as convey more information to the user. This is roughly akin to Annotations on any k8s resource, just the reconciler conveying richer information outwards.

Type

`object`

.status.conditions

Description

Conditions the latest available observations of a resource's current state.

Type

`array`

.status.conditions[]

Description

Condition defines a readiness condition for a Knative resource. See: https://github.com/kubernetes/community/blob/master/contributors/devel/sig-architecture/api-conventions.md#typical-status-properties

Type

`object`

Required

`status` `type`

Property	Type	Description
`lastTransitionTime`	`string`	LastTransitionTime is the last time the condition transitioned from one status to another. We use VolatileTime in place of metav1.Time to exclude this from creating equality.Semantic differences (all other things held constant).
`message`	`string`	A human readable message indicating details about the transition.
`reason`	`string`	The reason for the condition's last transition.
`severity`	`string`	Severity with which to treat failures of this type of condition. When this is not specified, it defaults to Error.
`status`	`string`	Status of the condition, one of True, False, Unknown.

Property	Type	Description
`type`	`string`	Type of condition.

API Endpoints

The following API endpoints are available:

- `/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorspypis`
  - `DELETE`: delete collection of ConnectorsPyPI
  - `GET`: list objects of kind ConnectorsPyPI
  - `POST`: create a new ConnectorsPyPI
- `/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorspypis/{name}`
  - `DELETE`: delete the specified ConnectorsPyPI
  - `GET`: read the specified ConnectorsPyPI
  - `PATCH`: partially update the specified ConnectorsPyPI
  - `PUT`: replace the specified ConnectorsPyPI
- `/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorspypis/{name}/status`
  - `GET`: read status of the specified ConnectorsPyPI
  - `PATCH`: partially update status of the specified ConnectorsPyPI
  - `PUT`: replace status of the specified ConnectorsPyPI

/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorspypis

HTTP method

`DELETE`

Description

delete collection of ConnectorsPyPI

HTTP responses

HTTP code	Response body
200 - OK	`Status↗` schema
401 - Unauthorized	Empty

HTTP method

`GET`

Description

list objects of kind ConnectorsPyPI

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsPyPIList` schema
401 - Unauthorized	Empty

HTTP method

`POST`

Description

create a new ConnectorsPyPI

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further

Parameter	Type	Description
		processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
`body`	`ConnectorsPyPI` schema	`application/json` formatted

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsPyPI` schema
201 - Created	`ConnectorsPyPI` schema
202 - Accepted	`ConnectorsPyPI` schema
401 - Unauthorized	Empty

/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorspypis/{name}

HTTP method

`DELETE`

Description

delete the specified ConnectorsPyPI

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

HTTP responses

HTTP code	Response body
200 - OK	`Status↗` schema
202 - Accepted	`Status↗` schema
401 - Unauthorized	Empty

HTTP method

`GET`

Description

read the specified ConnectorsPyPI

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsPyPI` schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update the specified ConnectorsPyPI

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsPyPI` schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace the specified ConnectorsPyPI

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

Parameter	Type	Description
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
`body`	`ConnectorsPyPI` schema	`application/json` formatted

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsPyPI` schema
201 - Created	`ConnectorsPyPI` schema
401 - Unauthorized	Empty

/apis/operator.connectors.alauda.io/v1alpha1/namespaces/{namespace}/connectorspypis/{name}/status

HTTP method

`GET`

Description

read status of the specified ConnectorsPyPI

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsPyPI` schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update status of the specified ConnectorsPyPI

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields.

Parameter	Type	Description
		This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsPyPI` schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace status of the specified ConnectorsPyPI

Query parameters

Parameter	Type	Description
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object,

Parameter	Type	Description
		and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

Body parameters

Parameter	Type	Description
`body`	`ConnectorsPyPI` schema	`application/json` formatted

HTTP responses

HTTP code	Response body
200 - OK	`ConnectorsPyPI` schema
201 - Created	`ConnectorsPyPI` schema
401 - Unauthorized	Empty