
[Alauda Container Platform](#) > [API 参考](#) > [Kubernetes APIs](#) > [Operator APIs](#)

Operator APIs

[CatalogSource \[operators.coreos.com\]](#) [ClusterServiceVersion \[operators.coreos.com\]](#) [InstallPlan \[operators.coreos.com\]](#)

[OLMConfig \[operators.coreos.com\]](#) [OperatorCondition \[operators.coreos.com\]](#) [OperatorGroup \[operators.coreos.com\]](#)

[Subscription \[operators.coreos.com\]](#) [Operator \[operators.operators.coreos.com/v1\]](#)

CatalogSource

[operators.coreos.com/v1alpha1]

Description

CatalogSource is a repository of CSVs, CRDs, and operator packages.

Type

object

Required

metadata

spec

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

Property	Type	Description
<code>kind</code>	<code>string</code>	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: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds ↗
<code>metadata</code>	<code>ObjectMeta</code>	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
<code>spec</code>	<code>object</code>	
<code>status</code>	<code>object</code>	

.spec

Type

`object`

Required

`sourceType`

Property	Type	Description
<code>address</code>	<code>string</code>	Address is a host that OLM can use to connect to a pre-existing registry. Format: : Only used when SourceType = SourceTypeGrpc. Ignored when the Image field is set.

Property	Type	Description
<code>configMap</code>	<code>string</code>	ConfigMap is the name of the ConfigMap to be used to back a configmap-server registry. Only used when <code>SourceType = SourceTypeConfigmap</code> or <code>SourceTypeInternal</code> .
<code>description</code>	<code>string</code>	
<code>displayName</code>	<code>string</code>	Metadata
<code>grpcPodConfig</code>	<code>object</code>	GrpcPodConfig exposes different overrides for the pod spec of the CatalogSource Pod. Only used when <code>SourceType = SourceTypeGrpc</code> and <code>Image</code> is set.
<code>icon</code>	<code>object</code>	
<code>image</code>	<code>string</code>	Image is an operator-registry container image to instantiate a registry-server with. Only used when <code>SourceType = SourceTypeGrpc</code> . If present, the <code>address</code> field is ignored.
<code>priority</code>	<code>integer</code>	Priority field assigns a weight to the catalog source to prioritize them so that it can be consumed by the dependency resolver. Usage: Higher weight indicates that this catalog source is preferred over lower weighted catalog sources during dependency resolution. The range of the priority value can go from positive to negative in the range of int32. The default value to a catalog source with unassigned priority would be 0. The catalog source with the same priority

Property	Type	Description
		values will be ranked lexicographically based on its name.
<code>publisher</code>	<code>string</code>	
<code>secrets</code>	<code>array</code>	Secrets represent set of secrets that can be used to access the contents of the catalog. It is best to keep this list small, since each will need to be tried for every catalog entry.
<code>sourceType</code>	<code>string</code>	SourceType is the type of source
<code>updateStrategy</code>	<code>object</code>	UpdateStrategy defines how updated catalog source images can be discovered Consists of an interval that defines polling duration and an embedded strategy type

.spec.grpcPodConfig

Description

GrpcPodConfig exposes different overrides for the pod spec of the CatalogSource Pod. Only used when SourceType = SourceTypeGrpc and Image is set.

Type

`object`

Property	Type	Description
<code>nodeSelector</code>	<code>object</code>	NodeSelector is a selector which must be true for the pod to fit on a node. Selector which must match

Property	Type	Description
		a node's labels for the pod to be scheduled on that node.
<code>priorityClassName</code>	<code>string</code>	If specified, indicates the pod's priority. If not specified, the pod priority will be default or zero if there is no default.
<code>tolerations</code>	<code>array</code>	Tolerations are the catalog source's pod's tolerations.

`.spec.grpcPodConfig.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.

Type

`object`

`.spec.grpcPodConfig.tolerations`

Description

Tolerations are the catalog source's pod's tolerations.

Type

`array`

`.spec.grpcPodConfig.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.

Property	Type	Description
<code>value</code>	<code>string</code>	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.icon

Type

`object`

Required

`base64data`

`mediatype`

Property	Type	Description
<code>base64data</code>	<code>string</code>	
<code>mediatype</code>	<code>string</code>	

.spec.secrets

Description

Secrets represent set of secrets that can be used to access the contents of the catalog. It is best to keep this list small, since each will need to be tried for every catalog entry.

Type

`array`

.spec.secrets[]

Type

`string`

.spec.updateStrategy

Description

UpdateStrategy defines how updated catalog source images can be discovered Consists of an interval that defines polling duration and an embedded strategy type

Type

object

Property	Type	Description
registryPoll	object	

.spec.updateStrategy.registryPoll

Type

object

Property	Type	Description
interval	string	Interval is used to determine the time interval between checks of the latest catalog source version. The catalog operator polls to see if a new version of the catalog source is available. If available, the latest image is pulled and gRPC traffic is directed to the latest catalog source.

.status

Type

object

Property	Type	Description
<code>conditions</code>	<code>array</code>	Represents the state of a CatalogSource. Note that Message and Reason represent the original status information, which may be migrated to be conditions based in the future. Any new features introduced will use conditions.
<code>configMapReference</code>	<code>object</code>	
<code>connectionState</code>	<code>object</code>	
<code>latestImageRegistryPoll</code>	<code>string</code>	The last time the CatalogSource image registry has been polled to ensure the image is up-to-date
<code>message</code>	<code>string</code>	A human readable message indicating details about why the CatalogSource is in this condition.
<code>reason</code>	<code>string</code>	Reason is the reason the CatalogSource was transitioned to its current state.
<code>registryService</code>	<code>object</code>	

.status.conditions

Description

Represents the state of a CatalogSource. Note that Message and Reason represent the original status information, which may be migrated to be conditions based in the future. Any

new features introduced will use conditions.

Type

array

.status.conditions[]

Description

Condition contains details for one aspect of the current state of this API Resource. --- This struct is intended for direct use as an array at the field path .status.conditions. For example,

```
type FooStatus struct{ // Represents the observations of a foo's current state. // Known .status.conditions.type are: "Available", "Progressing", and "Degraded" // +patchMergeKey=type // +patchStrategy=merge // +listType=map // +listMapKey=type Conditions []metav1.Condition `json:"conditions,omitempty" patchStrategy:"merge" patchMergeKey:"type" protobuf:"bytes,1,rep,name=conditions"` // other fields }
```

Type

object

Required

lastTransitionTime

message

reason

status

type

Property	Type	Description
lastTransitionTime	string	lastTransitionTime is the last time the condition transitioned from one status to another. This should be when the underlying condition changed. If that is not known, then using the time when the API field changed is acceptable.
message	string	message is a human readable message indicating details about the transition. This may be an empty string.

Property	Type	Description
<code>observedGeneration</code>	<code>integer</code>	<code>observedGeneration</code> represents the <code>.metadata.generation</code> that the condition was set based upon. For instance, if <code>.metadata.generation</code> is currently 12, but the <code>.status.conditions[x].observedGeneration</code> is 9, the condition is out of date with respect to the current state of the instance.
<code>reason</code>	<code>string</code>	<code>reason</code> contains a programmatic identifier indicating the reason for the condition's last transition. Producers of specific condition types may define expected values and meanings for this field, and whether the values are considered a guaranteed API. The value should be a CamelCase string. This field may not be empty.
<code>status</code>	<code>string</code>	status of the condition, one of True, False, Unknown.
<code>type</code>	<code>string</code>	type of condition in CamelCase or in foo.example.com/CamelCase. --- Many <code>.condition.type</code> values are consistent across resources like Available, but because arbitrary conditions can be useful (see <code>.node.status.conditions</code>), the ability to deconflict is important. The regex it matches is <code>(dns1123SubdomainFmt/)?(qualifiedNameFmt)</code>

.status.configMapReference

Type

`object`

Required

`name``namespace`

Property	Type	Description
<code>lastUpdateTime</code>	<code>string</code>	
<code>name</code>	<code>string</code>	
<code>namespace</code>	<code>string</code>	
<code>resourceVersion</code>	<code>string</code>	
<code>uid</code>	<code>string</code>	UID is a type that holds unique ID values, including UUIDs. Because we don't ONLY use UUIDs, this is an alias to string. Being a type captures intent and helps make sure that UUIDs and names do not get conflated.

.status.connectionState

Type

`object`

Required

`lastObservedState`

Property	Type	Description
<code>address</code>	<code>string</code>	
<code>lastConnect</code>	<code>string</code>	

Property	Type	Description
<code>lastObservedState</code>	<code>string</code>	

`.status.registryService`

Type

`object`

Property	Type	Description
<code>createdAt</code>	<code>string</code>	
<code>port</code>	<code>string</code>	
<code>protocol</code>	<code>string</code>	
<code>serviceName</code>	<code>string</code>	
<code>serviceNamespace</code>	<code>string</code>	

API Endpoints

The following API endpoints are available:

- `/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/catalogsources`
 - `DELETE` : delete collection of CatalogSource
 - `GET` : list objects of kind CatalogSource
 - `POST` : create a new CatalogSource
- `/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/catalogsources/{name}`
 - `DELETE` : delete the specified CatalogSource
 - `GET` : read the specified CatalogSource

- **PATCH** : partially update the specified CatalogSource
- **PUT** : replace the specified CatalogSource
- `/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/catalogsources/{name}/status`
 - **GET** : read status of the specified CatalogSource
 - **PATCH** : partially update status of the specified CatalogSource
 - **PUT** : replace status of the specified CatalogSource

`/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/catalogsources`

HTTP method

DELETE

Description

delete collection of CatalogSource

HTTP responses

HTTP code	Response body
200 - OK	Status schema
401 - Unauthorized	Empty

HTTP method

GET

Description

list objects of kind CatalogSource

HTTP responses

HTTP code	Response body
200 - OK	CatalogSourceList schema

HTTP code	Response body
401 - Unauthorized	Empty

HTTP method

POST

Description

create a new CatalogSource

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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
<code>body</code>	<code>CatalogSource</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>CatalogSource</code> schema
201 - Created	<code>CatalogSource</code> schema
202 - Accepted	<code>CatalogSource</code> schema
401 - Unauthorized	Empty

/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/catalogsources/{name}

HTTP method

DELETE

Description

delete the specified CatalogSource

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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	<code>Status</code> schema
202 - Accepted	<code>Status</code> schema
401 - Unauthorized	Empty

HTTP method

GET

Description

read the specified CatalogSource

HTTP responses

HTTP code	Response body
200 - OK	<code>CatalogSource</code> schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update the specified CatalogSource

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore:

Parameter	Type	Description
		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	<code>CatalogSource</code> schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace the specified CatalogSource

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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
<code>body</code>	<code>CatalogSource</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>CatalogSource</code> schema
201 - Created	<code>CatalogSource</code> schema
401 - Unauthorized	Empty

`/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/catalogsources/{name}/status`

HTTP method

GET

Description

read status of the specified CatalogSource

HTTP responses

HTTP code	Response body
200 - OK	<code>CatalogSource</code> schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update status of the specified CatalogSource

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> 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
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> 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	<code>CatalogSource</code> schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace status of the specified CatalogSource

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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	CatalogSource schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	CatalogSource schema
201 - Created	CatalogSource schema
401 - Unauthorized	Empty

ClusterServiceVersion

[operators.coreos.com/v1alpha1]

Description

ClusterServiceVersion is a Custom Resource of type `ClusterServiceVersionSpec`.

Type

object

Required

metadata

spec

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

Property	Type	Description
<code>kind</code>	<code>string</code>	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: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds ↗
<code>metadata</code>	<code>ObjectMeta</code>	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
<code>spec</code>	<code>object</code>	ClusterServiceVersionSpec declarations tell OLM how to install an operator that can manage apps for a given version.
<code>status</code>	<code>object</code>	ClusterServiceVersionStatus represents information about the status of a CSV. Status may trail the actual state of a system.

.spec

Description

ClusterServiceVersionSpec declarations tell OLM how to install an operator that can manage apps for a given version.

Type

`object`

Required

`displayName`

`install`

Property	Type	Description
<code>annotations</code>	<code>object</code>	Annotations is an unstructured key value map stored with a resource that may be set by external tools to store and retrieve arbitrary metadata.
<code>apiservicedefinitions</code>	<code>object</code>	APIServiceDefinitions declares all of the extension apis managed or required by an operator being ran by ClusterServiceVersion.
<code>cleanup</code>	<code>object</code>	Cleanup specifies the cleanup behaviour when the CSV gets deleted
<code>customresourcedefinitions</code>	<code>object</code>	CustomResourceDefinitions declares all of the CRDs managed or required by an operator being ran by ClusterServiceVersion. If the CRD is present in the Owned list, it is implicitly required.
<code>description</code>	<code>string</code>	
<code>displayName</code>	<code>string</code>	
<code>icon</code>	<code>array</code>	

Property	Type	Description
<code>install</code>	<code>object</code>	NamedInstallStrategy represents the block of an ClusterServiceVersion resource where the install strategy is specified.
<code>installModes</code>	<code>array</code>	InstallModes specify supported installation types
<code>keywords</code>	<code>array</code>	
<code>labels</code>	<code>object</code>	Map of string keys and values that can be used to organize and categorize (scope and select) objects.
<code>links</code>	<code>array</code>	
<code>maintainers</code>	<code>array</code>	
<code>maturity</code>	<code>string</code>	
<code>minKubeVersion</code>	<code>string</code>	
<code>nativeAPIs</code>	<code>array</code>	
<code>provider</code>	<code>object</code>	
<code>relatedImages</code>	<code>array</code>	List any related images, or other container images that your Operator might require to perform their functions. This list should also include operand images as well. All image references should be specified by digest (SHA) and not by tag. This field is

Property	Type	Description
		only used during catalog creation and plays no part in cluster runtime.
<code>replaces</code>	<code>string</code>	The name of a CSV this one replaces. Should match the <code>metadata.Name</code> field of the old CSV.
<code>selector</code>	<code>object</code>	Label selector for related resources.
<code>skips</code>	<code>array</code>	The name(s) of one or more CSV(s) that should be skipped in the upgrade graph. Should match the <code>metadata.Name</code> field of the CSV that should be skipped. This field is only used during catalog creation and plays no part in cluster runtime.
<code>version</code>	<code>string</code>	OperatorVersion is a wrapper around semver.Version which supports correct marshaling to YAML and JSON.
<code>webhookdefinitions</code>	<code>array</code>	

.spec.annotations

Description

Annotations is an unstructured key value map stored with a resource that may be set by external tools to store and retrieve arbitrary metadata.

Type

`object`

`.spec.apiservicedefinitions`

Description

APIServiceDefinitions declares all of the extension apis managed or required by an operator being ran by ClusterServiceVersion.

Type

`object`

Property	Type	Description
<code>owned</code>	<code>array</code>	
<code>required</code>	<code>array</code>	

`.spec.apiservicedefinitions.owned`

Type

`array`

`.spec.apiservicedefinitions.owned[]`

Description

APIServiceDescription provides details to OLM about apis provided via aggregation

Type

`object`

Required

`group``kind``name``version`

Property	Type	Description
<code>actionDescriptors</code>	<code>array</code>	

Property	Type	Description
containerPort	integer	
deploymentName	string	
description	string	
displayName	string	
group	string	
kind	string	
name	string	
resources	array	
specDescriptors	array	
statusDescriptors	array	
version	string	

.spec.apiservicedefinitions.owned[].actionDescriptors

Type

array

.spec.apiservicedefinitions.owned[].actionDescriptors[]

Description

ActionDescriptor describes a declarative action that can be performed on a custom resource instance

Type

object

Required

path

Property	Type	Description
description	string	
displayName	string	
path	string	
value	string	RawMessage is a raw encoded JSON value. It implements Marshaler and Unmarshaler and can be used to delay JSON decoding or precompute a JSON encoding.
x-descriptors	array	

.spec.apiservicedefinitions.owned[].actionDescriptors[].x-descriptors

Type

array

.spec.apiservicedefinitions.owned[].actionDescriptors[].x-descriptors[]

Type

string

.spec.apiservicedefinitions.owned[].resources

Type

array

`.spec.apiservicedefinitions.owned[].resources[]`

Description

APIResourceReference is a Kubernetes resource type used by a custom resource

Type

object

Required

kind

name

version

Property	Type	Description
kind	string	
name	string	
version	string	

`.spec.apiservicedefinitions.owned[].specDescriptors`

Type

array

`.spec.apiservicedefinitions.owned[].specDescriptors[]`

Description

SpecDescriptor describes a field in a spec block of a CRD so that OLM can consume it

Type

object

Required

path

Property	Type	Description
<code>description</code>	<code>string</code>	
<code>displayName</code>	<code>string</code>	
<code>path</code>	<code>string</code>	
<code>value</code>	<code>string</code>	RawMessage is a raw encoded JSON value. It implements Marshaler and Unmarshaler and can be used to delay JSON decoding or precompute a JSON encoding.
<code>x-descriptors</code>	<code>array</code>	

`.spec.apiservicedefinitions.owned[].specDescriptors[].x-descriptors`

Type

`array`

`.spec.apiservicedefinitions.owned[].specDescriptors[].x-descriptors[]`

Type

`string`

`.spec.apiservicedefinitions.owned[].statusDescriptors`

Type

`array`

`.spec.apiservicedefinitions.owned[].statusDescriptors[]`

Description

StatusDescriptor describes a field in a status block of a CRD so that OLM can consume it

Type

object

Required

path

Property	Type	Description
<code>description</code>	<code>string</code>	
<code>displayName</code>	<code>string</code>	
<code>path</code>	<code>string</code>	
<code>value</code>	<code>string</code>	RawMessage is a raw encoded JSON value. It implements Marshaler and Unmarshaler and can be used to delay JSON decoding or precompute a JSON encoding.
<code>x-descriptors</code>	<code>array</code>	

`.spec.apiservicedefinitions.owned[].statusDescriptors[].x-descriptors`

Type

array

`.spec.apiservicedefinitions.owned[].statusDescriptors[].x-descriptors[]`

Type

string

.spec.apiservicedefinitions.required

Type

array

.spec.apiservicedefinitions.required[]

Description

APIServiceDescription provides details to OLM about apis provided via aggregation

Type

object

Required

group

kind

name

version

Property	Type	Description
actionDescriptors	array	
containerPort	integer	
deploymentName	string	
description	string	
displayName	string	
group	string	
kind	string	
name	string	
resources	array	

Property	Type	Description
<code>specDescriptors</code>	<code>array</code>	
<code>statusDescriptors</code>	<code>array</code>	
<code>version</code>	<code>string</code>	

`.spec.apiservicedefinitions.required[].actionDescriptors`

Type

`array`

`.spec.apiservicedefinitions.required[].actionDescriptors[]`

Description

ActionDescriptor describes a declarative action that can be performed on a custom resource instance

Type

`object`

Required

`path`

Property	Type	Description
<code>description</code>	<code>string</code>	
<code>displayName</code>	<code>string</code>	
<code>path</code>	<code>string</code>	

Property	Type	Description
<code>value</code>	<code>string</code>	RawMessage is a raw encoded JSON value. It implements Marshaler and Unmarshaler and can be used to delay JSON decoding or precompute a JSON encoding.
<code>x-descriptors</code>	<code>array</code>	

.spec.apiservicedefinitions.required[].actionDescriptors[].x-descriptors

Type

`array`

.spec.apiservicedefinitions.required[].actionDescriptors[].x-descriptors[]

Type

`string`

.spec.apiservicedefinitions.required[].resources

Type

`array`

.spec.apiservicedefinitions.required[].resources[]

Description

APIResourceReference is a Kubernetes resource type used by a custom resource

Type

`object`**Required**`kind``name``version`

Property	Type	Description
<code>kind</code>	<code>string</code>	
<code>name</code>	<code>string</code>	
<code>version</code>	<code>string</code>	

`.spec.apiservicedefinitions.required[].specDescriptors`**Type**`array`**`.spec.apiservicedefinitions.required[].specDescriptors[]`****Description**

SpecDescriptor describes a field in a spec block of a CRD so that OLM can consume it

Type`object`**Required**`path`

Property	Type	Description
<code>description</code>	<code>string</code>	
<code>displayName</code>	<code>string</code>	
<code>path</code>	<code>string</code>	

Property	Type	Description
<code>value</code>	<code>string</code>	RawMessage is a raw encoded JSON value. It implements Marshaler and Unmarshaler and can be used to delay JSON decoding or precompute a JSON encoding.
<code>x-descriptors</code>	<code>array</code>	

`.spec.apiservicedefinitions.required[].specDescriptors[].x-descriptors`

Type

`array`

`.spec.apiservicedefinitions.required[].specDescriptors[].x-descriptors[]`

Type

`string`

`.spec.apiservicedefinitions.required[].statusDescriptors`

Type

`array`

`.spec.apiservicedefinitions.required[].statusDescriptors[]`

Description

StatusDescriptor describes a field in a status block of a CRD so that OLM can consume it

Type

`object`**Required**`path`

Property	Type	Description
<code>description</code>	<code>string</code>	
<code>displayName</code>	<code>string</code>	
<code>path</code>	<code>string</code>	
<code>value</code>	<code>string</code>	RawMessage is a raw encoded JSON value. It implements Marshaler and Unmarshaler and can be used to delay JSON decoding or precompute a JSON encoding.
<code>x-descriptors</code>	<code>array</code>	

`.spec.apiservicedefinitions.required[].statusDescriptors[].x-descriptors`

Type`array`

`.spec.apiservicedefinitions.required[].statusDescriptors[].x-descriptors[]`

Type`string`

`.spec.cleanup`

Description

Cleanup specifies the cleanup behaviour when the CSV gets deleted

Type

object

Required

enabled

Property	Type	Description
enabled	boolean	

.spec.customresourcedefinitions

Description

CustomResourceDefinitions declares all of the CRDs managed or required by an operator being ran by ClusterServiceVersion. If the CRD is present in the Owned list, it is implicitly required.

Type

object

Property	Type	Description
owned	array	
required	array	

.spec.customresourcedefinitions.owned

Type

array

.spec.customresourcedefinitions.owned[]

Description

CRDDescription provides details to OLM about the CRDs

Type

object

Required

kind

name

version

Property	Type	Description
actionDescriptors	array	
description	string	
displayName	string	
kind	string	
name	string	
resources	array	
specDescriptors	array	
statusDescriptors	array	
version	string	

`.spec.customresourcedefinitions.owned[].actionDescriptors`

Type

array

`.spec.customresourcedefinitions.owned[].actionDescriptors[]`

Description

ActionDescriptor describes a declarative action that can be performed on a custom resource instance

Type

object

Required

path

Property	Type	Description
description	string	
displayName	string	
path	string	
value	string	RawMessage is a raw encoded JSON value. It implements Marshaler and Unmarshaler and can be used to delay JSON decoding or precompute a JSON encoding.
x-descriptors	array	

`.spec.customresourcedefinitions.owned[].actionDescriptors[].x-descriptors`

Type

array

`.spec.customresourcedefinitions.owned[].actionDescriptors[].x-descriptors[]`

Type

`string`

`.spec.customresourcedefinitions.owned[].resources`

Type

`array`

`.spec.customresourcedefinitions.owned[].resources[]`

Description

APIResourceReference is a Kubernetes resource type used by a custom resource

Type

`object`

Required

`kind``name``version`

Property	Type	Description
<code>kind</code>	<code>string</code>	
<code>name</code>	<code>string</code>	
<code>version</code>	<code>string</code>	

`.spec.customresourcedefinitions.owned[].specDescriptors`

Type

`array`

`.spec.customresourcedefinitions.owned[].specDescriptors[]`

Description

SpecDescriptor describes a field in a spec block of a CRD so that OLM can consume it

Type

object

Required

path

Property	Type	Description
description	string	
displayName	string	
path	string	
value	string	RawMessage is a raw encoded JSON value. It implements Marshaler and Unmarshaler and can be used to delay JSON decoding or precompute a JSON encoding.
x-descriptors	array	

`.spec.customresourcedefinitions.owned[].specDescriptor` `s[].x-descriptors`

Type

array

`.spec.customresourcedefinitions.owned[].specDescriptor` `s[].x-descriptors[]`

Type

`string`

`.spec.customresourcedefinitions.owned[].statusDescriptors`

Type

`array`

`.spec.customresourcedefinitions.owned[].statusDescriptors[]`

Description

StatusDescriptor describes a field in a status block of a CRD so that OLM can consume it

Type

`object`

Required

`path`

Property	Type	Description
<code>description</code>	<code>string</code>	
<code>displayName</code>	<code>string</code>	
<code>path</code>	<code>string</code>	
<code>value</code>	<code>string</code>	RawMessage is a raw encoded JSON value. It implements Marshaler and Unmarshaler and can be used to delay JSON decoding or precompute a JSON encoding.
<code>x-descriptors</code>	<code>array</code>	

`.spec.customresourcedefinitions.owned[].statusDescriptors[].x-descriptors`

Type

array

`.spec.customresourcedefinitions.owned[].statusDescriptors[].x-descriptors[]`

Type

string

`.spec.customresourcedefinitions.required`

Type

array

`.spec.customresourcedefinitions.required[]`

Description

CRDDescription provides details to OLM about the CRDs

Type

object

Required

kind

name

version

Property	Type	Description
<code>actionDescriptors</code>	array	
<code>description</code>	string	

Property	Type	Description
displayName	string	
kind	string	
name	string	
resources	array	
specDescriptors	array	
statusDescriptors	array	
version	string	

.spec.customresourcedefinitions.required[].actionDescriptors

Type

array

.spec.customresourcedefinitions.required[].actionDescriptors[]

Description

ActionDescriptor describes a declarative action that can be performed on a custom resource instance

Type

object

Required

path

Property	Type	Description
<code>description</code>	<code>string</code>	
<code>displayName</code>	<code>string</code>	
<code>path</code>	<code>string</code>	
<code>value</code>	<code>string</code>	RawMessage is a raw encoded JSON value. It implements Marshaler and Unmarshaler and can be used to delay JSON decoding or precompute a JSON encoding.
<code>x-descriptors</code>	<code>array</code>	

`.spec.customresourcedefinitions.required[].actionDescriptors[].x-descriptors`

Type

`array`

`.spec.customresourcedefinitions.required[].actionDescriptors[].x-descriptors[]`

Type

`string`

`.spec.customresourcedefinitions.required[].resources`

Type

`array`

`.spec.customresourcedefinitions.required[].resources[]`

Description

APIResourceReference is a Kubernetes resource type used by a custom resource

Type

object

Required

kind

name

version

Property	Type	Description
kind	string	
name	string	
version	string	

`.spec.customresourcedefinitions.required[].specDescriptors`

Type

array

`.spec.customresourcedefinitions.required[].specDescriptors[]`

Description

SpecDescriptor describes a field in a spec block of a CRD so that OLM can consume it

Type

object

Required

path

Property	Type	Description
<code>description</code>	<code>string</code>	
<code>displayName</code>	<code>string</code>	
<code>path</code>	<code>string</code>	
<code>value</code>	<code>string</code>	RawMessage is a raw encoded JSON value. It implements Marshaler and Unmarshaler and can be used to delay JSON decoding or precompute a JSON encoding.
<code>x-descriptors</code>	<code>array</code>	

`.spec.customresourcedefinitions.required[].specDescriptors[].x-descriptors`

Type

`array`

`.spec.customresourcedefinitions.required[].specDescriptors[].x-descriptors[]`

Type

`string`

`.spec.customresourcedefinitions.required[].statusDescriptors`

Type

`array`

`.spec.customresourcedefinitions.required[].statusDescriptors[]`

Description

StatusDescriptor describes a field in a status block of a CRD so that OLM can consume it

Type

object

Required

path

Property	Type	Description
<code>description</code>	<code>string</code>	
<code>displayName</code>	<code>string</code>	
<code>path</code>	<code>string</code>	
<code>value</code>	<code>string</code>	RawMessage is a raw encoded JSON value. It implements Marshaler and Unmarshaler and can be used to delay JSON decoding or precompute a JSON encoding.
<code>x-descriptors</code>	<code>array</code>	

`.spec.customresourcedefinitions.required[].statusDescriptors[].x-descriptors`

Type

array

`.spec.customresourcedefinitions.required[].statusDescriptors[].x-descriptors[]`

Type

`string`

`.spec.icon`

Type

`array`

`.spec.icon[]`

Type

`object`

Required

`base64data``mediatype`

Property	Type	Description
<code>base64data</code>	<code>string</code>	
<code>mediatype</code>	<code>string</code>	

`.spec.install`

Description

NamedInstallStrategy represents the block of an ClusterServiceVersion resource where the install strategy is specified.

Type

`object`

Required

`strategy`

Property	Type	Description
<code>spec</code>	<code>object</code>	StrategyDetailsDeployment represents the parsed details of a Deployment InstallStrategy.
<code>strategy</code>	<code>string</code>	

`.spec.install.spec`

Description

StrategyDetailsDeployment represents the parsed details of a Deployment InstallStrategy.

Type

`object`

Required

`deployments`

Property	Type	Description
<code>clusterPermissions</code>	<code>array</code>	
<code>deployments</code>	<code>array</code>	
<code>permissions</code>	<code>array</code>	

`.spec.install.spec.clusterPermissions`

Type

`array`

`.spec.install.spec.clusterPermissions[]`

Description

StrategyDeploymentPermissions describe the rbac rules and service account needed by the install strategy

Type

object

Required

rules

serviceAccountName

Property	Type	Description
rules	array	
serviceAccountName	string	

.spec.install.spec.clusterPermissions[].rules

Type

array

.spec.install.spec.clusterPermissions[].rules[]

Description

PolicyRule holds information that describes a policy rule, but does not contain information about who the rule applies to or which namespace the rule applies to.

Type

object

Required

verbs

Property	Type	Description
<code>apiGroups</code>	<code>array</code>	APIGroups is the name of the APIGroup that contains the resources. If multiple API groups are specified, any action requested against one of the enumerated resources in any API group will be allowed.
<code>nonResourceURLs</code>	<code>array</code>	NonResourceURLs is a set of partial urls that a user should have access to. *s are allowed, but only as the full, final step in the path Since non-resource URLs are not namespaced, this field is only applicable for ClusterRoles referenced from a ClusterRoleBinding. Rules can either apply to API resources (such as "pods" or "secrets") or non-resource URL paths (such as "/api"), but not both.
<code>resourceNames</code>	<code>array</code>	ResourceNames is an optional white list of names that the rule applies to. An empty set means that everything is allowed.
<code>resources</code>	<code>array</code>	Resources is a list of resources this rule applies to. '*' represents all resources.
<code>verbs</code>	<code>array</code>	Verbs is a list of Verbs that apply to ALL the ResourceKinds and AttributeRestrictions contained in this rule. '*' represents all verbs.

`.spec.install.spec.clusterPermissions[].rules[].apiGroups`

Description

APIGroups is the name of the APIGroup that contains the resources. If multiple API groups are specified, any action requested against one of the enumerated resources in any API group will be allowed.

Type

array

`.spec.install.spec.clusterPermissions[].rules[].apiGroups[]`

Type

string

`.spec.install.spec.clusterPermissions[].rules[].nonResourceURLs`

Description

NonResourceURLs is a set of partial urls that a user should have access to. *s are allowed, but only as the full, final step in the path Since non-resource URLs are not namespaced, this field is only applicable for ClusterRoles referenced from a ClusterRoleBinding. Rules can either apply to API resources (such as "pods" or "secrets") or non-resource URL paths (such as "/api"), but not both.

Type

array

`.spec.install.spec.clusterPermissions[].rules[].nonResourceURLs[]`

Type

string

`.spec.install.spec.clusterPermissions[].rules[].resourceNames`

Description

ResourceNames is an optional white list of names that the rule applies to. An empty set means that everything is allowed.

Type

array

`.spec.install.spec.clusterPermissions[].rules[].resourceNames[]`

Type

string

`.spec.install.spec.clusterPermissions[].rules[].resources`

Description

Resources is a list of resources this rule applies to. '*' represents all resources.

Type

array

`.spec.install.spec.clusterPermissions[].rules[].resources[]`

Type

string

`.spec.install.spec.clusterPermissions[].rules[].verbs`

Description

Verbs is a list of Verbs that apply to ALL the ResourceKinds and AttributeRestrictions contained in this rule. '*' represents all verbs.

Type

array

.spec.install.spec.clusterPermissions[].rules[].verbs[]**Type**

string

.spec.install.spec.deployments**Type**

array

.spec.install.spec.deployments[]**Description**

StrategyDeploymentSpec contains the name, spec and labels for the deployment ALM should create

Type

object

Required

name

spec

Property	Type	Description
label	object	Set is a map of label:value. It implements Labels.
name	string	

Property	Type	Description
<code>spec</code>	<code>object</code>	DeploymentSpec is the specification of the desired behavior of the Deployment.

`.spec.install.spec.deployments[].label`

Description

Set is a map of label:value. It implements Labels.

Type

`object`

`.spec.install.spec.deployments[].spec`

Description

DeploymentSpec is the specification of the desired behavior of the Deployment.

Type

`object`

Required

`selector`

`template`

Property	Type	Description
<code>minReadySeconds</code>	<code>integer</code>	Minimum number of seconds for which a newly created pod should be ready without any of its container crashing, for it to be considered available. Defaults to 0 (pod will be considered available as soon as it is ready)

Property	Type	Description
<code>paused</code>	<code>boolean</code>	Indicates that the deployment is paused.
<code>progressDeadlineSeconds</code>	<code>integer</code>	The maximum time in seconds for a deployment to make progress before it is considered to be failed. The deployment controller will continue to process failed deployments and a condition with a <code>ProgressDeadlineExceeded</code> reason will be surfaced in the deployment status. Note that progress will not be estimated during the time a deployment is paused. Defaults to 600s.
<code>replicas</code>	<code>integer</code>	Number of desired pods. This is a pointer to distinguish between explicit zero and not specified. Defaults to 1.
<code>revisionHistoryLimit</code>	<code>integer</code>	The number of old ReplicaSets to retain to allow rollback. This is a pointer to distinguish between explicit zero and not specified. Defaults to 10.
<code>selector</code>	<code>object</code>	Label selector for pods. Existing ReplicaSets whose pods are selected by this will be the ones affected by this deployment. It must match the pod template's labels.

Property	Type	Description
<code>strategy</code>	<code>object</code>	The deployment strategy to use to replace existing pods with new ones.
<code>template</code>	<code>object</code>	Template describes the pods that will be created.

`.spec.install.spec.deployments[].spec.selector`

Description

Label selector for pods. Existing ReplicaSets whose pods are selected by this will be the ones affected by this deployment. It must match the pod template's labels.

Type

`object`

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

`.spec.install.spec.deployments[].spec.selector.matchExpressions`

Description

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

Type

array

`.spec.install.spec.deployments[].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
<code>key</code>	<code>string</code>	key is the label key that the selector applies to.
<code>operator</code>	<code>string</code>	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.

Property	Type	Description
<code>values</code>	<code>array</code>	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.install.spec.deployments[].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.install.spec.deployments[].spec.selector.matchExpressions[].values[]`

Type

`string`

`.spec.install.spec.deployments[].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.install.spec.deployments[].spec.strategy`

Description

The deployment strategy to use to replace existing pods with new ones.

Type

`object`

Property	Type	Description
<code>rollingUpdate</code>	<code>object</code>	Rolling update config params. Present only if DeploymentStrategyType = RollingUpdate. --- TODO: Update this to follow our convention for oneOf, whatever we decide it to be.
<code>type</code>	<code>string</code>	Type of deployment. Can be "Recreate" or "RollingUpdate". Default is RollingUpdate.

`.spec.install.spec.deployments[].spec.strategy.rollingUpdate`

Description

Rolling update config params. Present only if DeploymentStrategyType = RollingUpdate. --- TODO: Update this to follow our convention for oneOf, whatever we decide it to be.

Type

`object`

Property	Type	Description
<code>maxSurge</code>		The maximum number of pods that can be scheduled above the desired number of pods. Value can be an absolute number (ex: 5) or a percentage of desired pods (ex: 10%). This can not be 0 if MaxUnavailable is 0. Absolute number is calculated from percentage by rounding up. Defaults to 25%. Example: when this is set to 30%, the new ReplicaSet can be scaled up immediately when the rolling update starts, such that the total number of old and new pods do not exceed 130% of desired pods. Once old pods have been killed, new ReplicaSet can be scaled up further, ensuring that total number of pods running at any time during the update is at most 130% of desired pods.
<code>maxUnavailable</code>		The maximum number of pods that can be unavailable during the update. Value can be an absolute number (ex: 5) or a percentage of desired pods (ex: 10%). Absolute number is calculated from percentage by rounding down. This can not be 0 if MaxSurge is 0. Defaults to 25%. Example: when this is set to 30%, the old ReplicaSet can be scaled down to 70% of desired pods immediately when the rolling update starts. Once new pods are ready, old ReplicaSet can be scaled down further, followed by scaling up the new ReplicaSet, ensuring that the total number of pods available at all times during the update is at least 70% of desired pods.

`.spec.install.spec.deployments[].spec.template`

Description

Template describes the pods that will be created.

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.install.spec.deployments[].spec.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
<code>activeDeadlineSeconds</code>	<code>integer</code>	Optional duration in seconds the pod may StartTime before the system will actively try to mark it failed and kill any containers. Value must be a positive integer.
<code>affinity</code>	<code>object</code>	If specified, the pod's scheduling constraints
<code>automountServiceAccountToken</code>	<code>boolean</code>	AutomountServiceAccountToken indicates whether automounting API credentials is enabled for this pod.
<code>containers</code>	<code>array</code>	List of containers belonging to the pod. Containers can never be removed. There must be at least one container.
<code>dnsConfig</code>	<code>object</code>	Specifies the DNS parameters of a pod. Parameters specified in the pod spec and the generated DNS configuration based on the pod spec.
<code>dnsPolicy</code>	<code>string</code>	Set DNS policy for the pod. Defaults to "ClusterFirst". Valid values are 'ClusterFirstWithHostNet', 'ClusterFirst', 'Default', or 'First'. 'ClusterFirst' has the same effect as 'ClusterFirstWithHostNet' in the absence of a hostNetwork value. 'Default' must be set in the DNSConfig will be merged with the policy 'ClusterFirstWithHostNet'.
<code>enableServiceLinks</code>	<code>boolean</code>	EnableServiceLinks indicates whether information from the ServiceLinks resource is injected into pod's environment variables, and into the downward API API. Optional: Defaults to true.

Property	Type	Description
<code>ephemeralContainers</code>	<code>array</code>	List of ephemeral containers run in this pod. You can add an existing pod to perform user-initiated actions that require elevated privileges that the default runtime does not allow. Cannot be specified when creating a pod, and only applies to pods in the Pending state. In order to add an ephemeral container to an existing pod's ephemeralcontainers subresource, the pod must be in a state that is honored by servers that enable the EphemeralContainers feature.
<code>hostAliases</code>	<code>array</code>	HostAliases is an optional list of hosts and their corresponding IP addresses. Hosts must be present in the /etc/hosts file if specified. This is only valid for pods in the Pending state.
<code>hostIPC</code>	<code>boolean</code>	Use the host's ipc namespace. Optional: Default to false.
<code>hostNetwork</code>	<code>boolean</code>	Host networking requested for this pod. Use the host's network namespace. If the option is set, the ports that will be used must be requested from the host's network namespace. Optional: Default to false.
<code>hostPID</code>	<code>boolean</code>	Use the host's pid namespace. Optional: Default to false.
<code>hostname</code>	<code>string</code>	Specifies the hostname of the Pod. If not specified, the pod's hostname will be set to a system-defined value.

Property	Type	Description
<code>imagePullSecrets</code>	<code>array</code>	ImagePullSecrets is an optional list of references to secrets in the same namespace to use for pulling any of the images listed in the containers. Secrets that are referenced here will be passed to individual pods and no guarantees are made on when the pod will be restarted if one of these secrets is deleted. For example, in the case of docker, only Docker authentication is supported. More info: https://kubernetes.io/docs/concepts/configuration/secret#imagepullsecrets-on-a-pod
<code>initContainers</code>	<code>array</code>	List of initialization containers belonging to the pod. Init containers are designed to allow users to run containers in parallel to the main container. They can be used to initialize the application, to perform setup tasks that must be done, such as fetching or creating data, to set up libraries that the main container will use etc. - a great example would be a container image that will copy files to a local disk, so that the main container can use those files. Init containers are considered to have failed and is handled as a failure if one of the containers is marked as failed. For an init container or normal container multiple lifecycle actions can be specified. Init containers may not have Lifecycle actions, Startup probes or Readiness probes. The resourceRequirements field is optional for init containers but must be specified for normal containers. The resourceRequirements field is used to account during scheduling by finding the highest priority of the pod that fits the resource requirements, and then using the max of of that value. Limits are applied to init containers in a similar way to normal containers. Init containers can currently be added or removed. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/init-containers/
<code>nodeName</code>	<code>string</code>	nodeName is a request to schedule this pod on a specific node. If not specified, the scheduler simply schedules this pod on any node that fits resource requirements.
<code>nodeSelector</code>	<code>object</code>	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 fit on a node. More info: https://kubernetes.io/docs/concepts/scheduling-eviction/assign-pod-node/#nodeselector

Property	Type	Description
<code>overhead</code>	<code>object</code>	Overhead represents the resource overhead of a Pod given RuntimeClass. This field will be auto populated by the RuntimeClass admission controller. If the FeatureGate <code>PodOverhead</code> is enabled, overhead must not be set in Pod admission controller will reject Pod creation if <code>overhead</code> is already set. If RuntimeClass is configured for a Pod, <code>overhead</code> will be set to the value defined in the corresponding RuntimeClass. If <code>overhead</code> remain unset and treated as zero. More info: https://git.k8s.io/enhancements/keps/sig-node/1183-pod-overhead This field is beta-level as of Kubernetes v1.25. To enable the PodOverhead feature, the <code>PodOverhead</code> FeatureGate must be enabled.
<code>preemptionPolicy</code>	<code>string</code>	PreemptionPolicy is the Policy for preempting existing pods. Never, do not preempt any existing pods. PreemptLowerPriority, Defaults to ForcePreemptLowerPriority. Defaults to Force. This field is beta-level, gated by the NonPreemptingPriority FeatureGate.
<code>priority</code>	<code>integer</code>	The priority value. Various system components use this field to find the priority of the pod. When Priority Admission Control is enabled, setting this field is required. The admission controller will reject a pod without a priority class name. The higher the value, the higher the priority.
<code>priorityClassName</code>	<code>string</code>	If specified, indicates the pod's priority. "system-cluster-critical" and "system-node-critical" are two special keywords which indicate the highest priority. Any other string must match the name of a PriorityClass object with that name. If not specified, the priorityClassName will default to the priorityClassName of the pod's priority class. If not set or zero if there is no default.
<code>readinessGates</code>	<code>array</code>	If specified, all readiness gates will be evaluated before the pod is ready. All gates must pass for the pod to be ready.

Property	Type	Description
		gates have status equal to "True" More info: https://git.k8s.io/enhancements/keps/sig-n
<code>restartPolicy</code>	<code>string</code>	Restart policy for all containers within the p Default to Always. More info: https://kubernetes.io/docs/concepts/worklo
<code>runtimeClassName</code>	<code>string</code>	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://c node/585-runtime-class ↗ This is a beta fe
<code>schedulerName</code>	<code>string</code>	If specified, the pod will be dispatched by s pod will be dispatched by default schedule
<code>securityContext</code>	<code>object</code>	SecurityContext holds pod-level security at settings. Optional: Defaults to empty. See t each field.
<code>serviceAccount</code>	<code>string</code>	DeprecatedServiceAccount is a depreciate Deprecated: Use serviceAccountName ins

Property	Type	Description
<code>serviceAccountName</code>	<code>string</code>	ServiceAccountName is the name of the S More info: https://kubernetes.io/docs/tasks/service-account/ ↗
<code>setHostnameAsFQDN</code>	<code>boolean</code>	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
<code>shareProcessNamespace</code>	<code>boolean</code>	Share a single process namespace betwee this is set containers will be able to view ar containers in the same pod, and the first pi assigned PID 1. HostPID and ShareProces Optional: Default to false.
<code>subdomain</code>	<code>string</code>	If specified, the fully qualified Pod hostnam pod will not have a domainname at all.

Property	Type	Description
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod need decreased in delete request. Value must be nil or greater than 0. Value greater than 0 indicates stop immediately via the kill signal (this will move the pod into the terminated state), value is nil, the default grace period will be used. Value greater than 0 indicates the duration in seconds after the processes running in the pod are sent a termination signal and the time when the processes are expected to cleanly stop. When grace period is 0, the pod is terminated without any further delay.
<code>tolerations</code>	<code>array</code>	If specified, the pod's tolerations.
<code>topologySpreadConstraints</code>	<code>array</code>	TopologySpreadConstraints describes how a group of pods should spread across topology domains. Scheduler will schedule pods in a way which abides by the constraints. All topologySpreadConstraints in a pod's spec must have the same labelSelector.
<code>volumes</code>	<code>array</code>	List of volumes that can be mounted by containers in this pod. More info: https://kubernetes.io/docs/concepts/storage/persistent-volume

`.spec.install.spec.deployments[].spec.template.spec.affinity`

Description

If specified, the pod's scheduling constraints

Type

`object`

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

`.spec.install.spec.deployments[].spec.template.spec.affinity.nodeAffinity`

Description

Describes node affinity scheduling rules for the pod.

Type

`object`

Property	Type	Description
<code>preferredDuringSchedulingIgnoredDuringExecution</code>	<code>array</code>	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

Property	Type	Description
		node that is most preferred is the one with the greatest sum of weights, i.e. for each node that meets all of 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.

Property	Type	Description
<code>requiredDuringSchedulingIgnoredDuringExecution</code>	<code>object</code>	If the affinity requirement specified by this field is not met at scheduling time, the pod will not be scheduled onto the node. If the affinity requirement specified by this field ceases to be met at some point during pod execution (e.g. due to a node update), the system may or may not try to eventually evict the pod from its node.

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference`

Description

A node selector term, associated with the corresponding weight.

Type

object

Property	Type	Description
<code>matchExpressions</code>	<code>array</code>	A list of node selector requirements by node's labels.
<code>matchFields</code>	<code>array</code>	A list of node selector requirements by node's fields.

`.spec.install.spec.deployments[].spec.template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchExpressions`

Description

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

Type

`array`

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringE

execution[].preference.matchExpressions[].values[]

Type

string

.spec.install.spec.deployments[].spec.template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields

Description

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

Type

array

.spec.install.spec.deployments[].spec.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
<code>operator</code>	<code>string</code>	Represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists, DoesNotExist. Gt, and Lt.
<code>values</code>	<code>array</code>	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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution[].preference.matchFields[].values[]`

Type

`string`

`.spec.install.spec.deployments[].spec.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
<code>nodeSelectorTerms</code>	array	Required. A list of node selector terms. The terms are ORed.

`.spec.install.spec.deployments[].spec.template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms`

Description

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

Type

array

`.spec.install.spec.deployments[].spec.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
<code>matchExpressions</code>	array	A list of node selector requirements by node's labels.
<code>matchFields</code>	array	A list of node selector requirements by node's fields.

`.spec.install.spec.deployments[].spec.template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions`

Description

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

Type

array

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchExpressions[].values[]

Type

string

.spec.install.spec.deployments[].spec.template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields

Description

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

Type

array

.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution.nodeSelectorTerms[].matchFields[].values[]`

Type

`string`

`.spec.install.spec.deployments[].spec.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
<code>preferredDuringSchedulingIgnoredDuringExecution</code>	<code>array</code>	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, resource quota, etc.), we divide the sum of the node's preferred weights by the product of the following:

Property	Type	Description
		requiredDuringSched affinity expressions, € 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.

Property	Type	Description
<code>requiredDuringSchedulingIgnoredDuringExecution</code>	<code>array</code>	If the affinity requirement specified by this field is not met at scheduling time, the pod will not be scheduled onto the node. If the affinity requirement specified by this field ceases to be met at some point during pod execution (e.g. due to 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 intersected, i.e. all terms must be satisfied.

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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
<code>podAffinityTerm</code>	<code>object</code>	Required. A pod affinity term, associated with the corresponding weight.
<code>weight</code>	<code>integer</code>	weight associated with matching the corresponding podAffinityTerm, in the range 1-100.

`.spec.install.spec.deployments[].spec.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.
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. This field is beta-level and is only honored when PodAffinityNamespaceSelector feature is enabled.
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

Property	Type	Description
		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.install.spec.deployments[].spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector`

Description

A label query over a set of resources, in this case pods.

Type

object

Property	Type	Description
<code>matchExpressions</code>	array	matchExpressions is a list of label selector requirements. The requirements are ANDed.
<code>matchLabels</code>	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.install.spec.deployments[].spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringEx`

ecution[].podAffinityTerm.labelSelector.matchExpressions

Description

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

Type

array

.spec.install.spec.deployments[].spec.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

Property	Type	Description
		is Exists or DoesNotExist, the values array must be empty. This array is replaced during a strategic merge patch.

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

Type

string

.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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. This field is beta-level and is only honored when PodAffinityNamespaceSelector feature is enabled.

Type

object

Property	Type	Description
<code>matchExpressions</code>	<code>array</code>	matchExpressions is a list of label selector requirements. The requirements are ANDed.
<code>matchLabels</code>	<code>object</code>	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.install.spec.deployments[].spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions`

Description

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

Type

array

`.spec.install.spec.deployments[].spec.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
<code>key</code>	<code>string</code>	key is the label key that the selector applies to.

Property	Type	Description
<code>operator</code>	<code>string</code>	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
<code>values</code>	<code>array</code>	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.install.spec.deployments[].spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.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.install.spec.deployments[].spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions[].values[]`

Type

`string`

.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.affinity.podAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces[]

Type

string

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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
<code>labelSelector</code>	<code>object</code>	A label query over a set of resources, in this case pods.
<code>namespaceSelector</code>	<code>object</code>	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. This field is beta-level and is only honored when PodAffinityNamespaceSelector feature is enabled.
<code>namespaces</code>	<code>array</code>	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"
<code>topologyKey</code>	<code>string</code>	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.install.spec.deployments[].spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector`

Description

A label query over a set of resources, in this case pods.

Type

object

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

`.spec.install.spec.deployments[].spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions`

Description

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

Type

array

`.spec.install.spec.deployments[].spec.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.
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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values[]

Type

string

.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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. This field is beta-level and is only honored when PodAffinityNamespaceSelector feature is enabled.

Type

object

Property	Type	Description
<code>matchExpressions</code>	array	matchExpressions is a list of label selector requirements. The requirements are ANDed.
<code>matchLabels</code>	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.install.spec.deployments[].spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions`

Description

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

Type

array

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[].values[]

Type

string

.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.affinity.podAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces[]`

Type

`string`

`.spec.install.spec.deployments[].spec.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
<code>preferredDuringSchedulingIgnoredDuringExecution</code>	<code>array</code>	The scheduler will prefer to schedule pods to nodes that satisfy the anti-affinity expression specified by this field. 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, resource quota, etc.), we divide the sum of the weights of the expressions that the node satisfies by the total number of expressions. The scheduler will make a best effort to schedule pods to nodes that satisfy the anti-affinity expression specified by this field. 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, resource quota, etc.), we divide the sum of the weights of the expressions that the node satisfies by the total number of expressions.

Property	Type	Description
		requiredDuringSched anti-affinity expressio etc.), compute a sum iterating through the elements of this field adding "weight" to the sum if the node has r 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 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. W there are multiple elements, the lists of nodes corresponding each podAffinityTerm

Property	Type	Description
		intersected, i.e. all terms must be satisfied.

.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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
<code>podAffinityTerm</code>	<code>object</code>	Required. A pod affinity term, associated with the corresponding weight.
<code>weight</code>	<code>integer</code>	weight associated with matching the corresponding podAffinityTerm, in the range 1-100.

`.spec.install.spec.deployments[].spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm`

Description

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

Type

`object`

Required

`topologyKey`

Property	Type	Description
<code>labelSelector</code>	<code>object</code>	A label query over a set of resources, in this case pods.
<code>namespaceSelector</code>	<code>object</code>	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

Property	Type	Description
		listed in the namespaces field. null selector and null or empty namespaces list means "this pod's namespace". An empty selector ({}) matches all namespaces. This field is beta-level and is only honored when PodAffinityNamespaceSelector feature is enabled.
<code>namespaces</code>	<code>array</code>	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"
<code>topologyKey</code>	<code>string</code>	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.install.spec.deployments[].spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector`

Description

A label query over a set of resources, in this case pods.

Type

object

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

`.spec.install.spec.deployments[].spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions`

Description

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

Type

array

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.labelSelector.matchExpressions[].values[]

Type

`string`

.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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. This field is beta-level and is only honored when PodAffinityNamespaceSelector feature is enabled.

Type

object

Property	Type	Description
<code>matchExpressions</code>	array	matchExpressions is a list of label selector requirements. The requirements are ANDed.
<code>matchLabels</code>	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.install.spec.deployments[].spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaceSelector.matchExpressions

Description

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

Type

array

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

Type

string

.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.affinity.podAntiAffinity.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.install.spec.deployments[].spec.template.spec.affinity.podAntiAffinity.preferredDuringSchedulingIgnoredDuringExecution[].podAffinityTerm.namespaces[]

Type

string

.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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
<code>labelSelector</code>	object	A label query over a set of resources, in this case pods.
<code>namespaceSelector</code>	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. This field is beta-level and is only honored when <code>PodAffinityNamespaceSelector</code> feature is enabled.
<code>namespaces</code>	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 <code>namespaceSelector</code> . null or empty namespaces list and null <code>namespaceSelector</code> means "this pod's namespace"

Property	Type	Description
<code>topologyKey</code>	<code>string</code>	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.install.spec.deployments[].spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector`

Description

A label query over a set of resources, in this case pods.

Type

`object`

Property	Type	Description
<code>matchExpressions</code>	<code>array</code>	matchExpressions is a list of label selector requirements. The requirements are ANDed.
<code>matchLabels</code>	<code>object</code>	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.install.spec.deployments[].spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions`

Description

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

Type

array

`.spec.install.spec.deployments[].spec.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
<code>key</code>	<code>string</code>	key is the label key that the selector applies to.
<code>operator</code>	<code>string</code>	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.

Property	Type	Description
<code>values</code>	<code>array</code>	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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].labelSelector.matchExpressions[].values[]`

Type

`string`

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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. This field is beta-level and is only honored when PodAffinityNamespaceSelector feature is enabled.

Type

object

Property	Type	Description
<code>matchExpressions</code>	<code>array</code>	matchExpressions is a list of label selector requirements. The requirements are ANDed.
<code>matchLabels</code>	<code>object</code>	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.install.spec.deployments[].spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions

Description

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

Type

array

.spec.install.spec.deployments[].spec.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.

Property	Type	Description
<code>values</code>	<code>array</code>	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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaceSelector.matchExpressions[].values[]`

Type

`string`

`.spec.install.spec.deployments[].spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuring`

gExecution[].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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.affinity.podAntiAffinity.requiredDuringSchedulingIgnoredDuringExecution[].namespaces[]

Type

string

.spec.install.spec.deployments[].spec.template.spec.containers

Property	Type	Description
args	array	Arguments to the entrypoint. The docker image's <code>ENTRYPOINT</code> command is used if this is not provided. Variable references <code>\$(VAR_NAME)</code> are expanded using the container's environment. If a variable is not defined, the reference will be resolved to the empty string. Double <code>\$\$</code> are reduced to a single <code>\$</code>, which allows for escaping the <code>\$(VAR_NAME)</code> syntax: i.e. <code>\$\$\$(VAR_NAME)</code> or <code>\$\$\$</code> will result in a string literal <code>\$(VAR_NAME)</code>. 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
command	array	Entrypoint array. Not executed within a shell. The <code>ENTRYPOINT</code> command is used if this is not provided. Variable references <code>\$(VAR_NAME)</code> are expanded using the container's environment. If a variable is not defined, the reference will be resolved to the empty string. Double <code>\$\$</code> are reduced to a single <code>\$</code>, which allows for escaping the <code>\$(VAR_NAME)</code> syntax: i.e. <code>\$\$\$(VAR_NAME)</code> or <code>\$\$\$</code> will result in a string literal <code>\$(VAR_NAME)</code>. 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

Property	Type	Description
		<code>\$(VAR_NAME)</code> are expanded using the container's environment. If a variable cannot be resolved, the reference in the command will be unchanged. Double <code>\$\$</code> are reduced to a single <code>\$</code> to allow for escaping the <code>\$(VAR_NAME)</code> syntax: i.e. <code>\$\$\$(VAR_NAME)</code> will produce the string literal <code>\$(VAR_NAME)</code>. 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
<code>env</code>	<code>array</code>	List of environment variables to set in the container. Cannot be updated.
<code>envFrom</code>	<code>array</code>	List of sources to populate environment variables in the container. The keys defined within a source must match those of the container 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 with the same key will take precedence. Values defined by an Env with a duplicate key will take precedence. Cannot be updated.
<code>image</code>	<code>string</code>	Docker image name. More info: https://kubernetes.io/docs/concepts/containers/images The <code>imagePullPolicy</code> field is optional to allow higher level config managers to default or override container images in workload controllers Deployments and StatefulSets.
<code>imagePullPolicy</code>	<code>string</code>	Image pull policy. One of Always, Never, IfNotPresent. Defaults to Always if :latest tag is specified, or IfNotPresent otherwise. Cannot be updated. More info: https://kubernetes.io/docs/concepts/containers/images

Property	Type	Description
		https://kubernetes.io/docs/concepts/containers/images ↗
lifecycle	object	Actions that the management system should take on container lifecycle events. Cannot be updated.
livenessProbe	object	Periodic probe of container liveness. Container v1 the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/lifecycle#container-probes ↗
name	string	Name of the container specified as a DNS_LABEL. Container in a pod must have a unique name (DNS_LABEL). Cannot be updated.
ports	array	List of ports to expose from the container. Exposing a port gives the system additional information about the network connections a container uses, but is primarily informational. Note that specifying a port here DOES NOT prevent that port from being exposed. Any port which is listening on the default address inside a container will be accessible from the outside. Cannot be updated.

Property	Type	Description
<code>readinessProbe</code>	<code>object</code>	Periodic probe of container service readiness. Container will be removed from service endpoints if the probe fails. More info: https://kubernetes.io/docs/concepts/workloads/pods/lifecycle#container-probes
<code>resources</code>	<code>object</code>	Compute Resources required by this container. More info: https://kubernetes.io/docs/concepts/configuration/resource-requirements/
<code>securityContext</code>	<code>object</code>	SecurityContext defines the security options the container should be run with. If set, the fields of SecurityContext override equivalent fields of PodSecurityContext. More info: https://kubernetes.io/docs/tasks/configure-pod-container/security-context/
<code>startupProbe</code>	<code>object</code>	StartupProbe indicates that the Pod has successfully initialized. If specified, no other probes are executed until this successfully completes. If this probe fails, the Pod will be restarted. This can be used to probe parameters at the beginning of a Pod's life cycle that might take a long time to load data or warm a cache before entering steady-state operation. This cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/lifecycle#container-probes

Property	Type	Description
<code>stdin</code>	<code>boolean</code>	Whether this container should allocate a buffer for container runtime. If this is not set, reads from stdin container will always result in EOF. Default is false
<code>stdinOnce</code>	<code>boolean</code>	Whether the container runtime should close the stdin after it has been opened by a single attach. When the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is opened on container start, is empty until the first client attaches to stdin, remains open and accepts data until the client disconnects, at which time stdin is closed and remains closed until the container is restarted. If this flag is false, a container process from stdin will never receive an EOF. Default is false
<code>terminationMessagePath</code>	<code>string</code>	Optional: Path at which the file to which the container termination message will be written is mounted in the container's filesystem. Message written is intended to be consumed by a user-defined process on the host. Message length across all containers will be limited by the node if greater than 4096 bytes. Defaults to /dev/termination-log. Cannot be updated.
<code>terminationMessagePolicy</code>	<code>string</code>	Indicate how the termination message should be handled. AllLogs will use the contents of terminationMessagePath to populate the container status message on both success and failure. FallbackToLogsOnError will use the last chunk of container log output if the termination message file is empty at the time the container exited with an error. The log output is limited to 2048 bytes or 2 lines, whichever is smaller. Defaults to File. Cannot be updated.

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

`.spec.install.spec.deployments[].spec.template.spec.containers[].args`

Description

Arguments to the entrypoint. The docker 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.install.spec.deployments[].spec.template.spec.containers[].args[]`

Type

string

`.spec.install.spec.deployments[].spec.template.spec.containers[].command`

Description

Entrypoint array. Not executed within a shell. The docker 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.install.spec.deployments[].spec.template.spec.containers[].command[]`

Type

string

`.spec.install.spec.deployments[].spec.template.spec.containers[].env`

Description

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

Type

array

`.spec.install.spec.deployments[].spec.template.spec.containers[].env[]`

Description

EnvVar represents an environment variable present in a Container.

Type

object

Required

name

Property	Type	Description
<code>name</code>	<code>string</code>	Name of the environment variable. Must be a C_IDENTIFIER.
<code>value</code>	<code>string</code>	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 "".

Property	Type	Description
<code>valueFrom</code>	<code>object</code>	Source for the environment variable's value. Cannot be used if value is not empty.

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

Property	Type	Description
<code>secretKeyRef</code>	<code>object</code>	Selects a key of a secret in the pod's namespace

`.spec.install.spec.deployments[].spec.template.spec.containers[].env[].valueFrom.configMapKeyRef`

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
<code>key</code>	<code>string</code>	The key to select.
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?
<code>optional</code>	<code>boolean</code>	Specify whether the ConfigMap or its key must be defined

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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
<code>containerName</code>	<code>string</code>	Container name: required for volumes, optional for env vars
<code>divisor</code>	<code>int</code>	Specifies the output format of the exposed resources, defaults to "1"
<code>resource</code>	<code>string</code>	Required: resource to select

`.spec.install.spec.deployments[].spec.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
<code>key</code>	<code>string</code>	The key of the secret to select from. Must be a valid secret key.
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/secret

Property	Type	Description
		objects/names/#names  TODO: Add other useful fields. apiVersion, kind, uid?
<code>optional</code>	<code>boolean</code>	Specify whether the Secret or its key must be defined

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.containers[].envFrom[]`

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
<code>configMapRef</code>	<code>object</code>	The ConfigMap to select from

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

`.spec.install.spec.deployments[].spec.template.spec.containers[].envFrom[].configMapRef`

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?
<code>optional</code>	<code>boolean</code>	Specify whether the ConfigMap must be defined

`.spec.install.spec.deployments[].spec.template.spec.containers[].envFrom[].secretRef`

Description

The Secret to select from

Type

object

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?
optional	boolean	Specify whether the Secret must be defined

.spec.install.spec.deployments[].spec.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 ↗

Property	Type	Description
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 reason for termination is passed to the handler. The Pod's termination grace period countdown begins before the PreStop hooked is executed. Regardless of the outcome of the handler, the container will eventually terminate within the Pod's termination grace period. 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.install.spec.deployments[].spec.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
<code>exec</code>	<code>object</code>	One and only one of the following should be specified. Exec specifies the action to take.
<code>httpGet</code>	<code>object</code>	HTTPGet specifies the http request to perform.
<code>tcpSocket</code>	<code>object</code>	TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

`.spec.install.spec.deployments[].spec.template.spec.containers[].lifecycle.postStart.exec`

Description

One and only one of the following should be specified. Exec specifies the action to take.

Type

`object`

Property	Type	Description
<code>command</code>	<code>array</code>	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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.containers[].lifecycle.postStart.exec.command[]`

Type

string

`.spec.install.spec.deployments[].spec.template.spec.containers[].lifecycle.postStart.httpGet`

Description

HTTPGet specifies the http request to perform.

Type

object

Required

port

Property	Type	Description
<code>host</code>	<code>string</code>	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
<code>httpHeaders</code>	<code>array</code>	Custom headers to set in the request. HTTP allows repeated headers.
<code>path</code>	<code>string</code>	Path to access on the HTTP server.
<code>port</code>		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.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.install.spec.deployments[].spec.template.spec.containers[].lifecycle.postStart.httpGet.httpHeaders`

Description

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

Type

`array`

`.spec.install.spec.deployments[].spec.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
value	string	The header field value

`.spec.install.spec.deployments[].spec.template.spec.containers[].lifecycle.postStart.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

Type

object

Required

port

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

Property	Type	Description
<code>port</code>	<code>int</code>	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.install.spec.deployments[].spec.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 reason for termination is passed to the handler. 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. 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
<code>exec</code>	<code>object</code>	One and only one of the following should be specified. Exec specifies the action to take.
<code>httpGet</code>	<code>object</code>	HTTPGet specifies the http request to perform.

Property	Type	Description
<code>tcpSocket</code>	<code>object</code>	TCP Socket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

`.spec.install.spec.deployments[].spec.template.spec.containers[].lifecycle.preStop.exec`

Description

One and only one of the following should be specified. Exec specifies the action to take.

Type

`object`

Property	Type	Description
<code>command</code>	<code>array</code>	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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.containers[].lifecycle.preStop.exec.command[]

Type

string

.spec.install.spec.deployments[].spec.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.

Property	Type	Description
<code>path</code>	<code>string</code>	Path to access on the HTTP server.
<code>port</code>	<code>int</code>	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.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.install.spec.deployments[].spec.template.spec.containers[].lifecycle.preStop.httpGet.httpHeaders`

Description

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

Type

`array`

`.spec.install.spec.deployments[].spec.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
<code>name</code>	<code>string</code>	The header field name
<code>value</code>	<code>string</code>	The header field value

`.spec.install.spec.deployments[].spec.template.spec.containers[].lifecycle.preStop.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

Type

`object`

Required

`port`

Property	Type	Description
<code>host</code>	<code>string</code>	Optional: Host name to connect to, defaults to the pod IP.
<code>port</code>		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.install.spec.deployments[].spec.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
<code>exec</code>	object	One and only one of the following should be specified. Exec specifies the action to take.
<code>failureThreshold</code>	integer	Minimum consecutive failures for the probe to be considered failed after having succeeded. Minimum value is 1.
<code>httpGet</code>	object	HTTPGet specifies the http request to perform
<code>initialDelaySeconds</code>	integer	Number of seconds after the container has started before liveness probes are initiated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes
<code>periodSeconds</code>	integer	How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1.

Property	Type	Description
<code>successThreshold</code>	<code>integer</code>	Minimum consecutive successes for the probe to be considered successful after having failed. The probe must be 1 for liveness and startup. Minimum value is 1.
<code>tcpSocket</code>	<code>object</code>	TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement realistic TCP lifecycle hook
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod needs to gracefully shutdown before it is killed. The grace period is the duration in seconds after the processes running on the pod are sent a termination signal and the time when the processes are forcibly halted with a kill signal. It specifies that the pod needs to terminate gracefully within this time. If this value is nil, the pod's terminationGracePeriodSeconds will be used. Otherwise, this value overrides the value provided in the pod spec. Value must be non-negative integer. Value zero indicates stop immediately via the kill signal (no opportunity to shut down). This is a beta feature and requires enabling ProbeTerminationGracePeriod. Minimum value is 1. spec.terminationGracePeriodSeconds is used.
<code>timeoutSeconds</code>	<code>integer</code>	Number of seconds after which the probe times out. Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/workloads/pods/probes/#container-probes

`.spec.install.spec.deployments[].spec.template.spec.containers[].livenessProbe.exec`

Description

One and only one of the following should be specified. Exec specifies the action to take.

Type

object

Property	Type	Description
<code>command</code>	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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.containers[].livenessProbe.exec.command[]`

Type

string

`.spec.install.spec.deployments[].spec.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.

Property	Type	Description
<code>port</code>	<code>integer</code>	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.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.install.spec.deployments[].spec.template.spec.containers[].livenessProbe.httpGet.httpHeaders`

Description

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

Type

`array`

`.spec.install.spec.deployments[].spec.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
<code>name</code>	<code>string</code>	The header field name
<code>value</code>	<code>string</code>	The header field value

`.spec.install.spec.deployments[].spec.template.spec.containers[].livenessProbe.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

Type

`object`

Required

`port`

Property	Type	Description
<code>host</code>	<code>string</code>	Optional: Host name to connect to, defaults to the pod IP.
<code>port</code>		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.install.spec.deployments[].spec.template.spec.containers[].ports`

Description

List of ports to expose from the container. Exposing a port here gives the system additional information about the network connections a container uses, but is primarily informational. 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. Cannot be updated.

Type

array

`.spec.install.spec.deployments[].spec.template.spec.containers[].ports[]`

Description

ContainerPort represents a network port in a single container.

Type

object

Required

containerPort

Property	Type	Description
<code>containerPort</code>	<code>integer</code>	Number of port to expose on the pod's IP address. This must be a valid port number, $0 < x < 65536$.
<code>hostIP</code>	<code>string</code>	What host IP to bind the external port to.

Property	Type	Description
<code>hostPort</code>	<code>integer</code>	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.
<code>name</code>	<code>string</code>	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.
<code>protocol</code>	<code>string</code>	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

`.spec.install.spec.deployments[].spec.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
<code>exec</code>	<code>object</code>	One and only one of the following should be specified. Exec specifies the action to take.

Property	Type	Description
<code>failureThreshold</code>	<code>integer</code>	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
<code>httpGet</code>	<code>object</code>	HTTPGet specifies the http request to perf
<code>initialDelaySeconds</code>	<code>integer</code>	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes
<code>periodSeconds</code>	<code>integer</code>	How often (in seconds) to perform the prot 10 seconds. Minimum value is 1.
<code>successThreshold</code>	<code>integer</code>	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
<code>tcpSocket</code>	<code>object</code>	TCPSocket specifies an action involving a TCP hooks not yet supported TODO: imple realistic TCP lifecycle hook
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes run pod are sent a termination signal and the ti

Property	Type	Description
		processes are forcibly halted with a kill signal value longer than the expected cleanup time process. If this value is nil, the pod's terminationGracePeriodSeconds will be used. Otherwise, this value overrides the value provided in the pod spec. Value must be non-negative integer. Value zero indicates stop immediately via SIGKILL (no opportunity to shut down). This is a beta feature and requires enabling ProbeTerminationGracePeriod. Minimum value is 1. spec.terminationGracePeriodSeconds is used.
timeoutSeconds	integer	Number of seconds after which the probe times out. Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/workloads/controllers/lifecycle#container-probes

`.spec.install.spec.deployments[].spec.template.spec.containers[].readinessProbe.exec`

Description

One and only one of the following should be specified. 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

Property	Type	Description
		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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.containers[].readinessProbe.exec.command[]

Type

string

.spec.install.spec.deployments[].spec.template.spec.containers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`**Required**`port`

Property	Type	Description
<code>host</code>	<code>string</code>	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
<code>httpHeaders</code>	<code>array</code>	Custom headers to set in the request. HTTP allows repeated headers.
<code>path</code>	<code>string</code>	Path to access on the HTTP server.
<code>port</code>		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.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.install.spec.deployments[].spec.template.spec.containers[].readinessProbe.httpGet.httpHeaders`**Description**

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

Type

array

`.spec.install.spec.deployments[].spec.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
value	string	The header field value

`.spec.install.spec.deployments[].spec.template.spec.containers[].readinessProbe.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

Type

object

Required

port

Property	Type	Description
<code>host</code>	<code>string</code>	Optional: Host name to connect to, defaults to the pod IP.
<code>port</code>	<code></code>	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.install.spec.deployments[].spec.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
<code>limits</code>	<code>object</code>	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
<code>requests</code>	<code>object</code>	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. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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. More info: <https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/>

Type

`object`

`.spec.install.spec.deployments[].spec.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
<code>allowPrivilegeEscalation</code>	<code>boolean</code>	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the <code>no_new_privs</code> 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
<code>capabilities</code>	<code>object</code>	The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime.
<code>privileged</code>	<code>boolean</code>	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false.

Property	Type	Description
<code>procMount</code>	<code>string</code>	<code>procMount</code> denotes the type of proc mount to use for the containers. The default is <code>DefaultProcMount</code> which uses the container runtime defaults for readonly paths and masked paths. This requires the <code>ProcMountType</code> feature flag to be enabled.
<code>readOnlyRootFilesystem</code>	<code>boolean</code>	Whether this container has a read-only root filesystem. Default is false.
<code>runAsGroup</code>	<code>integer</code>	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in <code>PodSecurityContext</code>. If set in both <code>SecurityContext</code> and <code>PodSecurityContext</code>, the value specified in <code>SecurityContext</code> takes precedence.
<code>runAsNonRoot</code>	<code>boolean</code>	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 <code>PodSecurityContext</code>. If set in both <code>SecurityContext</code> and <code>PodSecurityContext</code>, the value specified in <code>SecurityContext</code> takes precedence.

Property	Type	Description
<code>runAsUser</code>	<code>integer</code>	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.
<code>seLinuxOptions</code>	<code>object</code>	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.
<code>seccompProfile</code>	<code>object</code>	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.
<code>windowsOptions</code>	<code>object</code>	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.

`.spec.install.spec.deployments[].spec.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.

Type

object

Property	Type	Description
<code>add</code>	array	Added capabilities
<code>drop</code>	array	Removed capabilities

`.spec.install.spec.deployments[].spec.template.spec.containers[].securityContext.capabilities.add`

Description

Added capabilities

Type

array

`.spec.install.spec.deployments[].spec.template.spec.containers[].securityContext.capabilities.add[]`

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.install.spec.deployments[].spec.template.spec.containers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.install.spec.deployments[].spec.template.spec.containers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.install.spec.deployments[].spec.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.

Type

`object`

Property	Type	Description
<code>level</code>	<code>string</code>	Level is SELinux level label that applies to the container.
<code>role</code>	<code>string</code>	Role is a SELinux role label that applies to the container.
<code>type</code>	<code>string</code>	Type is a SELinux type label that applies to the container.
<code>user</code>	<code>string</code>	User is a SELinux user label that applies to the container.

`.spec.install.spec.deployments[].spec.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.

Type

`object`

Required

`type`

Property	Type	Description
<code>localhostProfile</code>	<code>string</code>	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

Property	Type	Description
		seccomp profile location. Must only be set if type is "Localhost".
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.install.spec.deployments[].spec.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.

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.

Property	Type	Description
<code>gmsaCredentialSpecName</code>	<code>string</code>	GMSACredentialSpecName is the name of the GMSA credential spec to use.
<code>hostProcess</code>	<code>boolean</code>	HostProcess determines if a container should be run as a 'Host Process' container. This field is alpha-level and will only be honored by components that enable the WindowsHostProcessContainers feature flag. Setting this field without the feature flag will result in errors when validating the Pod. 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.
<code>runAsUserName</code>	<code>string</code>	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.install.spec.deployments[].spec.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
<code>exec</code>	object	One and only one of the following should be specified. Exec specifies the action to take.
<code>failureThreshold</code>	integer	Minimum consecutive failures for the probe to be considered failed after having succeeded. Minimum value is 1.
<code>httpGet</code>	object	HTTPGet specifies the http request to perform
<code>initialDelaySeconds</code>	integer	Number of seconds after the container has started before liveness probes are initiated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes
<code>periodSeconds</code>	integer	How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1.

Property	Type	Description
<code>successThreshold</code>	<code>integer</code>	Minimum consecutive successes for the probe to be considered successful after having failed. The probe must be 1 for liveness and startup. Minimum value is 1.
<code>tcpSocket</code>	<code>object</code>	TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement realistic TCP lifecycle hook
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod needs to gracefully shutdown before it is killed. The grace period is the duration in seconds after the processes running on the pod are sent a termination signal and the time when the processes are forcibly halted with a kill signal. It specifies that the pod needs to terminate gracefully within this time after the termination signal. If this value is nil, the pod's terminationGracePeriodSeconds will be used. Otherwise, this value overrides the value provided in the pod spec. Value must be non-negative integer. Value zero indicates stop immediately via SIGKILL (no opportunity to shut down). This is a beta feature and requires enabling ProbeTerminationGracePeriod. Minimum value is 1. spec.terminationGracePeriodSeconds is used.
<code>timeoutSeconds</code>	<code>integer</code>	Number of seconds after which the probe times out. Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/workloads/pods/probes/#container-probes

`.spec.install.spec.deployments[].spec.template.spec.containers[].startupProbe.exec`

Description

One and only one of the following should be specified. Exec specifies the action to take.

Type

object

Property	Type	Description
<code>command</code>	<code>array</code>	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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.containers[].startupProbe.exec.command[]`

Type

`string`

`.spec.install.spec.deployments[].spec.template.spec.containers[].startupProbe.httpGet`

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

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

Property	Type	Description
<code>port</code>		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.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.install.spec.deployments[].spec.template.spec.containers[].startupProbe.httpGet.httpHeaders`

Description

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

Type

`array`

`.spec.install.spec.deployments[].spec.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
<code>name</code>	<code>string</code>	The header field name
<code>value</code>	<code>string</code>	The header field value

`.spec.install.spec.deployments[].spec.template.spec.containers[].startupProbe.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

Type

`object`

Required

`port`

Property	Type	Description
<code>host</code>	<code>string</code>	Optional: Host name to connect to, defaults to the pod IP.
<code>port</code>		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.install.spec.deployments[].spec.template.spec.containers[].volumeDevices`

Description

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

Type

array

`.spec.install.spec.deployments[].spec.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
<code>devicePath</code>	<code>string</code>	devicePath is the path inside of the container that the device will be mapped to.
<code>name</code>	<code>string</code>	name must match the name of a persistentVolumeClaim in the pod

`.spec.install.spec.deployments[].spec.template.spec.containers[].volumeMounts`

Description

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

Type

array

`.spec.install.spec.deployments[].spec.template.spec.containers[].volumeMounts[]`

Description

VolumeMount describes a mounting of a Volume within a container.

Type

object

Required

mountPath

name

Property	Type	Description
<code>mountPath</code>	<code>string</code>	Path within the container at which the volume should be mounted. Must not contain '..'.
<code>mountPropagation</code>	<code>string</code>	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.
<code>name</code>	<code>string</code>	This must match the Name of a Volume.
<code>readOnly</code>	<code>boolean</code>	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
<code>subPath</code>	<code>string</code>	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's

Property	Type	Description
		root).
<code>subPathExpr</code>	<code>string</code>	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.install.spec.deployments[].spec.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
<code>nameservers</code>	<code>array</code>	A list of DNS name server IP addresses. This will be appended to the base nameservers generated from DNSPolicy. Duplicated nameservers will be removed.
<code>options</code>	<code>array</code>	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

Property	Type	Description
		Options will override those that appear in the base DNSPolicy.
<code>searches</code>	<code>array</code>	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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.dnsConfig.nameservers[]`

Type

`string`

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.dnsConfig.options[]`

Description

PodDNSConfigOption defines DNS resolver options of a pod.

Type

object

Property	Type	Description
name	string	Required.
value	string	

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.dnsConfig.searches[]`

Type

`string`

`.spec.install.spec.deployments[].spec.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. This field is alpha-level and is only honored by servers that enable the `EphemeralContainers` feature.

Type

`array`

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[]`

Description

An `EphemeralContainer` is a container that may be added temporarily 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. If an ephemeral container causes a pod to exceed its resource allocation, the pod may be evicted. Ephemeral containers may not be added by directly updating the pod spec. They must be added via the pod's `ephemeralcontainers` subresource, and they will appear in the pod spec once added. This is an alpha feature enabled by the `EphemeralContainers` feature flag.

Type

`object`

Required

`name`

Property	Type	Description
args	array	Arguments to the entrypoint. The docker image's this is not provided. Variable references <code>\$(VAR_NAME)</code> expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double <code>\$\$</code> are reduced to a single <code>\$</code>, which allows for escaping the <code>\$(VAR_NAME)</code> syntax: i.e. <code>\$\$\$(VAR_NAME)</code> will produce the string literal <code>\$(VAR_NAME)</code>. 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
command	array	Entrypoint array. Not executed within a shell. The <code>ENTRYPOINT</code> is used if this is not provided. Variable references <code>\$(VAR_NAME)</code> are expanded using the container's environment. If a variable cannot be resolved, the reference in the input string will be unchanged. Double <code>\$\$</code> are reduced to a single <code>\$</code>, which allows for escaping the <code>\$(VAR_NAME)</code> syntax: i.e. <code>\$\$\$(VAR_NAME)</code> will produce the string literal <code>\$(VAR_NAME)</code>. 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
env	array	List of environment variables to set in the container. Cannot be updated.
envFrom	array	List of sources to populate environment variables in the container. The keys defined within a source must match those of the container. Cannot be updated.

Property	Type	Description
		when the container is starting. When a key exists sources, the value associated with the last source take precedence. Values defined by an Env with a duplicate key also take precedence. Cannot be updated.
image	string	Docker image name. More info: https://kubernetes.io/docs/concepts/containers/images
imagePullPolicy	string	Image pull policy. One of Always, Never, IfNotPresent. Defaults to Always if :latest tag is specified, or IfNotPresent otherwise. Cannot be updated. More info: https://kubernetes.io/docs/concepts/containers/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 pod's security context. This name must be unique among all containers, and ephemeral containers.
ports	array	Ports are not allowed for ephemeral containers.

Property	Type	Description
<code>readinessProbe</code>	<code>object</code>	Probes are not allowed for ephemeral containers
<code>resources</code>	<code>object</code>	Resources are not allowed for ephemeral containers use spare resources already allocated
<code>securityContext</code>	<code>object</code>	Optional: SecurityContext defines the security context that should be run with. If set, the SecurityContext override the equivalent fields of PodSecurityContext.
<code>startupProbe</code>	<code>object</code>	Probes are not allowed for ephemeral containers
<code>stdin</code>	<code>boolean</code>	Whether this container should allocate a buffer for container runtime. If this is not set, reads from stdin container will always result in EOF. Default is false
<code>stdinOnce</code>	<code>boolean</code>	Whether the container runtime should close the stdin after it has been opened by a single attach. When the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is opened on container start, is empty until the first client attaches to stdin, remains open and accepts data until the client disconnects, at which time stdin is closed and remains closed until the container is restarted. If this flag is false, a container process from stdin will never receive an EOF. Default is false

Property	Type	Description
<code>targetContainerName</code>	<code>string</code>	If set, the name of the container from PodSpec that the ephemeral container targets. The ephemeral container will run in the namespaces (IPC, PID, etc) of this container. If not set, then the ephemeral container is run in whatever namespace is shared for the pod. Note that the container runtime must support this feature.
<code>terminationMessagePath</code>	<code>string</code>	Optional: Path at which the file to which the container's termination message will be written is mounted in the container's filesystem. Message written is intended to be of final status, such as an assertion failure message. Message length across all containers will be limited by the node if greater than 4096 bytes. Defaults to /dev/termination-log. Cannot be updated.
<code>terminationMessagePolicy</code>	<code>string</code>	Indicate how the termination message should be handled. If set to File, will use the contents of terminationMessagePath. If set to FallbackToLogsOnError, container status message on both success and failure. FallbackToLogsOnError will use the last chunk of container log output if the termination message file is empty and the container exited with an error. The log output is limited to 2048 bytes or 2 lines, whichever is smaller. Defaults to File. Cannot be updated.
<code>tty</code>	<code>boolean</code>	Whether this container should allocate a TTY for standard input. Requires 'stdin' to be true. Default is false.

Property	Type	Description
<code>volumeDevices</code>	<code>array</code>	volumeDevices is the list of block devices to be u container.
<code>volumeMounts</code>	<code>array</code>	Pod volumes to mount into the container's filesys updated.
<code>workingDir</code>	<code>string</code>	Container's working directory. If not specified, the runtime's default will be used, which might be co container image. Cannot be updated.

`.spec.install.spec.deployments[].spec.template.spec.ephe meralContainers[].args`

Description

Arguments to the entrypoint. The docker 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.install.spec.deployments[].spec.template.spec.ephe meralContainers[].args[]`

Type

string

.spec.install.spec.deployments[].spec.template.spec.ephe meralContainers[].command

Description

Entrypoint array. Not executed within a shell. The docker 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.install.spec.deployments[].spec.template.spec.ephe meralContainers[].command[]

Type

string

.spec.install.spec.deployments[].spec.template.spec.ephe meralContainers[].env

Description

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

Type

array

`.spec.install.spec.deployments[].spec.template.spec.ephe` `meralContainers[].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.install.spec.deployments[].spec.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
<code>configMapKeyRef</code>	object	Selects a key of a ConfigMap.
<code>fieldRef</code>	object	Selects a field of the pod: supports metadata.name, metadata.namespace, <code>metadata.labels['<KEY>']</code> , <code>metadata.annotations['<KEY>']</code> , spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.
<code>resourceFieldRef</code>	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.
<code>secretKeyRef</code>	object	Selects a key of a secret in the pod's namespace

`.spec.install.spec.deployments[].spec.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. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?
optional	boolean	Specify whether the ConfigMap or its key must be defined

`.spec.install.spec.deployments[].spec.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
<code>apiVersion</code>	<code>string</code>	Version of the schema the FieldPath is written in terms of, defaults to "v1".
<code>fieldPath</code>	<code>string</code>	Path of the field to select in the specified API version.

`.spec.install.spec.deployments[].spec.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
<code>containerName</code>	<code>string</code>	Container name: required for volumes, optional for env vars

Property	Type	Description
<code>divisor</code>	<code>integer</code>	Specifies the output format of the exposed resources, defaults to "1"
<code>resource</code>	<code>string</code>	Required: resource to select

`.spec.install.spec.deployments[].spec.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
<code>key</code>	<code>string</code>	The key of the secret to select from. Must be a valid secret key.
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names [↗] TODO: Add other useful fields. apiVersion, kind, uid?

Property	Type	Description
<code>optional</code>	<code>boolean</code>	Specify whether the Secret or its key must be defined

`.spec.install.spec.deployments[].spec.template.spec.ephe meralContainers[].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.install.spec.deployments[].spec.template.spec.ephe meralContainers[].envFrom[]`

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
<code>configMapRef</code>	<code>object</code>	The ConfigMap to select from

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

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].envFrom[].configMapRef`

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?
<code>optional</code>	<code>boolean</code>	Specify whether the ConfigMap must be defined

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].envFrom[].secretRef`

Description

The Secret to select from

Type

object

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?
optional	boolean	Specify whether the Secret must be defined

`.spec.install.spec.deployments[].spec.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 ↗

Property	Type	Description
<code>preStop</code>	<code>object</code>	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 reason for termination is passed to the handler. 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. 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.install.spec.deployments[].spec.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
<code>exec</code>	<code>object</code>	One and only one of the following should be specified. Exec specifies the action to take.
<code>httpGet</code>	<code>object</code>	HTTPGet specifies the http request to perform.
<code>tcpSocket</code>	<code>object</code>	TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

`.spec.install.spec.deployments[].spec.template.spec.ephe` `meralContainers[].lifecycle.postStart.exec`

Description

One and only one of the following should be specified. Exec specifies the action to take.

Type

`object`

Property	Type	Description
<code>command</code>	<code>array</code>	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.install.spec.deployments[].spec.template.spec.ephe meralContainers[].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.install.spec.deployments[].spec.template.spec.ephe meralContainers[].lifecycle.postStart.exec.command[]`

Type

string

`.spec.install.spec.deployments[].spec.template.spec.ephe meralContainers[].lifecycle.postStart.httpGet`

Description

HTTPGet specifies the http request to perform.

Type

object

Required

port

Property	Type	Description
<code>host</code>	<code>string</code>	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
<code>httpHeaders</code>	<code>array</code>	Custom headers to set in the request. HTTP allows repeated headers.
<code>path</code>	<code>string</code>	Path to access on the HTTP server.
<code>port</code>		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.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

**`.spec.install.spec.deployments[].spec.template.spec.ephe
meralContainers[].lifecycle.postStart.httpGet.httpHeaders`**

Description

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

Type

`array`

**`.spec.install.spec.deployments[].spec.template.spec.ephe
meralContainers[].lifecycle.postStart.httpGet.httpHeaders[`**

]

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name``value`

Property	Type	Description
<code>name</code>	<code>string</code>	The header field name
<code>value</code>	<code>string</code>	The header field value

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].lifecycle.postStart.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

Type

`object`

Required

`port`

Property	Type	Description
<code>host</code>	<code>string</code>	Optional: Host name to connect to, defaults to the pod IP.
<code>port</code>		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.install.spec.deployments[].spec.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 reason for termination is passed to the handler. 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. 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
<code>exec</code>	<code>object</code>	One and only one of the following should be specified. Exec specifies the action to take.

Property	Type	Description
<code>httpGet</code>	<code>object</code>	HTTPGet specifies the http request to perform.
<code>tcpSocket</code>	<code>object</code>	TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].lifecycle.preStop.exec`

Description

One and only one of the following should be specified. Exec specifies the action to take.

Type

`object`

Property	Type	Description
<code>command</code>	<code>array</code>	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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.ephemeralContainers[].lifecycle.preStop.exec.command[]`

Type

string

`.spec.install.spec.deployments[].spec.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.

Property	Type	Description
<code>httpHeaders</code>	<code>array</code>	Custom headers to set in the request. HTTP allows repeated headers.
<code>path</code>	<code>string</code>	Path to access on the HTTP server.
<code>port</code>	<code>int</code>	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.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].lifecycle.preStop.httpGet.httpHeaders`

Description

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

Type

`array`

`.spec.install.spec.deployments[].spec.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
<code>name</code>	<code>string</code>	The header field name
<code>value</code>	<code>string</code>	The header field value

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].lifecycle.preStop.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

Type

`object`

Required

`port`

Property	Type	Description
<code>host</code>	<code>string</code>	Optional: Host name to connect to, defaults to the pod IP.
<code>port</code>		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.install.spec.deployments[].spec.template.spec.ephemeralContainers[].livenessProbe

Description

Probes are not allowed for ephemeral containers.

Type

object

Property	Type	Description
exec	object	One and only one of the following should be provided. Exec specifies the action to take.
failureThreshold	integer	Minimum consecutive failures for the probe to be considered failed after having succeeded. Minimum value is 1.
httpGet	object	HTTPGet specifies the http request to perform
initialDelaySeconds	integer	Number of seconds after the container has started before liveness probes are initiated. More info: https://kubernetes.io/docs/concepts/workloads/pods/lifecycle#container-probes
periodSeconds	integer	How often (in seconds) to perform the probe. Default is 10 seconds. Minimum value is 1.

Property	Type	Description
<code>successThreshold</code>	<code>integer</code>	Minimum consecutive successes for the probe to be considered successful after having failed. The probe must be 1 for liveness and startup. Minimum value is 1.
<code>tcpSocket</code>	<code>object</code>	TCPSocket specifies an action involving a TCP hook. TCP hooks not yet supported TODO: implement realistic TCP lifecycle hook
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod needs to gracefully shutdown before it is killed. The grace period is the duration in seconds after the processes running on the pod are sent a termination signal and the time when the processes are forcibly halted with a kill signal. It specifies that the pod needs to terminate gracefully within this time value longer than the expected cleanup time for the process. If this value is nil, the pod's terminationGracePeriodSeconds will be used. Otherwise, this value overrides the value provided by the pod spec. Value must be non-negative integer. Value zero indicates stop immediately via the kill signal (no opportunity to shut down). This is a beta feature and requires enabling ProbeTerminationGracePeriod. Minimum value is 1. spec.terminationGracePeriodSeconds is used.
<code>timeoutSeconds</code>	<code>integer</code>	Number of seconds after which the probe times out. Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/workloads/pods/probes/#container-probes

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].livenessProbe.exec`

Description

One and only one of the following should be specified. Exec specifies the action to take.

Type

object

Property	Type	Description
<code>command</code>	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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.ephemeralContainers[].livenessProbe.exec.command[]`

Type

`string`

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].livenessProbe.httpGet`

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

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

Property	Type	Description
<code>port</code>		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.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.install.spec.deployments[].spec.template.spec.ephe meralContainers[].livenessProbe.httpGet.httpHeaders`

Description

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

Type

`array`

`.spec.install.spec.deployments[].spec.template.spec.ephe meralContainers[].livenessProbe.httpGet.httpHeaders[]`

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name`

`value`

Property	Type	Description
<code>name</code>	<code>string</code>	The header field name
<code>value</code>	<code>string</code>	The header field value

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].livenessProbe.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

Type

`object`

Required

`port`

Property	Type	Description
<code>host</code>	<code>string</code>	Optional: Host name to connect to, defaults to the pod IP.
<code>port</code>		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.install.spec.deployments[].spec.template.spec.ephemeralContainers[].ports`

Description

Ports are not allowed for ephemeral containers.

Type

array

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].ports[]`

Description

ContainerPort represents a network port in a single container.

Type

object

Required

containerPort

Property	Type	Description
<code>containerPort</code>	<code>integer</code>	Number of port to expose on the pod's IP address. This must be a valid port number, $0 < x < 65536$.
<code>hostIP</code>	<code>string</code>	What host IP to bind the external port to.
<code>hostPort</code>	<code>integer</code>	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.
<code>name</code>	<code>string</code>	If specified, this must be an IANA_SVC_NAME and unique within the pod. Each named port in a pod must

Property	Type	Description
		have a unique name. Name for the port that can be referred to by services.
<code>protocol</code>	<code>string</code>	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].readinessProbe`

Description

Probes are not allowed for ephemeral containers.

Type

`object`

Property	Type	Description
<code>exec</code>	<code>object</code>	One and only one of the following should be specified. Exec specifies the action to take.
<code>failureThreshold</code>	<code>integer</code>	Minimum consecutive failures for the probe to be considered failed after having succeeded. Minimum value is 1.
<code>httpGet</code>	<code>object</code>	HTTPGet specifies the http request to perform

Property	Type	Description
<code>initialDelaySeconds</code>	<code>integer</code>	Number of seconds after the container has started before liveness probes are initiated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes
<code>periodSeconds</code>	<code>integer</code>	How often (in seconds) to perform the probe. Default is 10 seconds. Minimum value is 1.
<code>successThreshold</code>	<code>integer</code>	Minimum consecutive successes for the probe to be considered successful after having failed. Default is 1. Must be 1 for liveness and startup. Minimum value for readiness is 0.
<code>tcpSocket</code>	<code>object</code>	TCPSocket specifies an action involving a TCP port. Note: TCP hooks not yet supported TODO: implement realistic TCP lifecycle hook
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod needs to gracefully terminate before it will be forced to kill. The grace period is the duration in seconds after the processes running in the pod are sent a termination signal and the time when the processes are forcibly halted with a kill signal. It specifies that the pod needs to terminate gracefully within this time by default. If this value is nil, the pod's terminationGracePeriodSeconds will be used. Otherwise, this value overrides the value provided by the pod spec. Value must be non-negative integer. Value zero indicates stop immediately via the kill signal (no opportunity to shut down). This is a beta feature and requires enabling ProbeTerminationGracePeriod.

Property	Type	Description
		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/workload-lifecycle#container-probes ↗

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].readinessProbe.exec`

Description

One and only one of the following should be specified. 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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.ephemeralContainers[].readinessProbe.exec.command[]

Type

string

.spec.install.spec.deployments[].spec.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.

Property	Type	Description
<code>httpHeaders</code>	<code>array</code>	Custom headers to set in the request. HTTP allows repeated headers.
<code>path</code>	<code>string</code>	Path to access on the HTTP server.
<code>port</code>	<code>int</code>	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.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].readinessProbe.httpGet.httpHeaders`

Description

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

Type

`array`

`.spec.install.spec.deployments[].spec.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
<code>name</code>	<code>string</code>	The header field name
<code>value</code>	<code>string</code>	The header field value

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].readinessProbe.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

Type

`object`

Required

`port`

Property	Type	Description
<code>host</code>	<code>string</code>	Optional: Host name to connect to, defaults to the pod IP.
<code>port</code>		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.install.spec.deployments[].spec.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
<code>limits</code>	object	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗
<code>requests</code>	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. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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. More info:

<https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/>

Type

object

`.spec.install.spec.deployments[].spec.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
<code>allowPrivilegeEscalation</code>	<code>boolean</code>	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

Property	Type	Description
<code>capabilities</code>	<code>object</code>	The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime.
<code>privileged</code>	<code>boolean</code>	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false.
<code>procMount</code>	<code>string</code>	<code>procMount</code> denotes the type of proc mount to use for the containers. The default is <code>DefaultProcMount</code> which uses the container runtime defaults for readonly paths and masked paths. This requires the <code>ProcMountType</code> feature flag to be enabled.
<code>readOnlyRootFilesystem</code>	<code>boolean</code>	Whether this container has a read-only root filesystem. Default is false.
<code>runAsGroup</code>	<code>integer</code>	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in <code>PodSecurityContext</code> . If set in both <code>SecurityContext</code> and <code>PodSecurityContext</code> , the value specified in <code>SecurityContext</code> takes precedence.

Property	Type	Description
<code>runAsNonRoot</code>	<code>boolean</code>	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.
<code>runAsUser</code>	<code>integer</code>	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.
<code>seLinuxOptions</code>	<code>object</code>	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.
<code>seccompProfile</code>	<code>object</code>	The seccomp options to use by this container. If seccomp options are provided

Property	Type	Description
		at both the pod & container level, the container options override the pod options.
<code>windowsOptions</code>	<code>object</code>	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.

`.spec.install.spec.deployments[].spec.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.

Type

`object`

Property	Type	Description
<code>add</code>	<code>array</code>	Added capabilities
<code>drop</code>	<code>array</code>	Removed capabilities

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].securityContext.capabilities.add`

Description

Added capabilities

Type

array

.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].securityContext.capabilities.add[]

Description

Capability represent POSIX capabilities type

Type

string

.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

array

.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

string

`.spec.install.spec.deployments[].spec.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.

Type

object

Property	Type	Description
<code>level</code>	<code>string</code>	Level is SELinux level label that applies to the container.
<code>role</code>	<code>string</code>	Role is a SELinux role label that applies to the container.
<code>type</code>	<code>string</code>	Type is a SELinux type label that applies to the container.
<code>user</code>	<code>string</code>	User is a SELinux user label that applies to the container.

`.spec.install.spec.deployments[].spec.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.

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 only be set if type is "Localhost".
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.install.spec.deployments[].spec.template.spec.ephe meralContainers[].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.

Type

object

Property	Type	Description
<code>gmsaCredentialSpec</code>	<code>string</code>	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 <code>GMSACredentialSpecName</code> field.
<code>gmsaCredentialSpecName</code>	<code>string</code>	GMSACredentialSpecName is the name of the GMSA credential spec to use.
<code>hostProcess</code>	<code>boolean</code>	HostProcess determines if a container should be run as a 'Host Process' container. This field is alpha-level and will only be honored by components that enable the <code>WindowsHostProcessContainers</code> feature flag. Setting this field without the feature flag will result in errors when validating the Pod. 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.
<code>runAsUserName</code>	<code>string</code>	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 <code>PodSecurityContext</code> . If set in both <code>SecurityContext</code> and <code>PodSecurityContext</code> , the

Property	Type	Description
		value specified in SecurityContext takes precedence.

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].startupProbe`

Description

Probes are not allowed for ephemeral containers.

Type

object

Property	Type	Description
<code>exec</code>	object	One and only one of the following should be specified. Exec specifies the action to take.
<code>failureThreshold</code>	integer	Minimum consecutive failures for the probe to be considered failed after having succeeded. Minimum value is 1.
<code>httpGet</code>	object	HTTPGet specifies the http request to perform
<code>initialDelaySeconds</code>	integer	Number of seconds after the container has started before liveness probes are initiated. More info: https://kubernetes.io/docs/concepts/workloads/pods/lifecycle#container-probes

Property	Type	Description
<code>periodSeconds</code>	<code>integer</code>	How often (in seconds) to perform the probe. Defaults to 10 seconds. Minimum value is 1.
<code>successThreshold</code>	<code>integer</code>	Minimum consecutive successes for the probe to be considered successful after having failed. The probe must be 1 for liveness and startup. Minimum value is 1.
<code>tcpSocket</code>	<code>object</code>	TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement realistic TCP lifecycle hook
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod needs to gracefully shutdown upon probe failure. The grace period is the duration in seconds after the processes running in the pod are sent a termination signal and the time when the processes are forcibly halted with a kill signal. It specifies that the pod cleanup process must complete within this time. If this value is nil, the pod's terminationGracePeriodSeconds will be used. Otherwise, this value overrides the value provided in the pod spec. Value must be non-negative integer. Value zero indicates stop immediately via kill signal (no opportunity to shut down). This is a beta feature and requires enabling ProbeTerminationGracePeriod gate. Minimum value is 1. spec.terminationGracePeriodSeconds is used if specified.
<code>timeoutSeconds</code>	<code>integer</code>	Number of seconds after which the probe times out. Defaults to 1 second. Minimum value is 1.

Property	Type	Description
		https://kubernetes.io/docs/concepts/workload-components/#probes lifecycle#container-probes ↗

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].startupProbe.exec`

Description

One and only one of the following should be specified. Exec specifies the action to take.

Type

object

Property	Type	Description
<code>command</code>	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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.ephe
meralContainers[].startupProbe.exec.command[]**

Type

string

**.spec.install.spec.deployments[].spec.template.spec.ephe
meralContainers[].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.

Property	Type	Description
<code>port</code>		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.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.install.spec.deployments[].spec.template.spec.ephe meralContainers[].startupProbe.httpGet.httpHeaders`

Description

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

Type

`array`

`.spec.install.spec.deployments[].spec.template.spec.ephe meralContainers[].startupProbe.httpGet.httpHeaders[]`

Description

HTTPHeader describes a custom header to be used in HTTP probes

Type

`object`

Required

`name`

`value`

Property	Type	Description
<code>name</code>	<code>string</code>	The header field name
<code>value</code>	<code>string</code>	The header field value

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].startupProbe.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

Type

`object`

Required

`port`

Property	Type	Description
<code>host</code>	<code>string</code>	Optional: Host name to connect to, defaults to the pod IP.
<code>port</code>		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.install.spec.deployments[].spec.template.spec.ephemeralContainers[].volumeDevices`

Description

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

Type

array

`.spec.install.spec.deployments[].spec.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
<code>devicePath</code>	<code>string</code>	devicePath is the path inside of the container that the device will be mapped to.
<code>name</code>	<code>string</code>	name must match the name of a persistentVolumeClaim in the pod

`.spec.install.spec.deployments[].spec.template.spec.ephemeralContainers[].volumeMounts`

Description

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

Type

array

`.spec.install.spec.deployments[].spec.template.spec.ephe meralContainers[].volumeMounts[]`

Description

VolumeMount describes a mounting of a Volume within a container.

Type

object

Required

mountPath

name

Property	Type	Description
<code>mountPath</code>	<code>string</code>	Path within the container at which the volume should be mounted. Must not contain '..'.
<code>mountPropagation</code>	<code>string</code>	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.
<code>name</code>	<code>string</code>	This must match the Name of a Volume.
<code>readOnly</code>	<code>boolean</code>	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
<code>subPath</code>	<code>string</code>	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's

Property	Type	Description
		root).
<code>subPathExpr</code>	<code>string</code>	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.install.spec.deployments[].spec.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. This is only valid for non-hostNetwork pods.

Type

`array`

`.spec.install.spec.deployments[].spec.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`

Property	Type	Description
<code>hostnames</code>	<code>array</code>	Hostnames for the above IP address.
<code>ip</code>	<code>string</code>	IP address of the host file entry.

`.spec.install.spec.deployments[].spec.template.spec.hostAliases[].hostnames`

Description

Hostnames for the above IP address.

Type

`array`

`.spec.install.spec.deployments[].spec.template.spec.hostAliases[].hostnames[]`

Type

`string`

`.spec.install.spec.deployments[].spec.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. For example, in the case of docker, only DockerConfig type secrets are honored. More info:

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

Type

array

`.spec.install.spec.deployments[].spec.template.spec.imagePullSecrets[]`

Description

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

Type

object

Property	Type	Description
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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 docker image's this is not provided. Variable references \$(VAR_NAME) 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-application/command-argument-container/#running-a-comm
command	array	Entrypoint array. Not executed within a shell. The ENTRYPOINT is used if this is not provided. Variable references \$(VAR_NAME) are expanded using the container's environment.

Property	Type	Description
		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 up https://kubernetes.io/docs/tasks/inject-data-appli command-argument-container/#running-a-comm
env	array	List of environment variables to set in the contain updated.
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 when the container is starting. When a key exists sources, the value associated with the last source precedence. Values defined by an Env with a duplicate take precedence. Cannot be updated.
image	string	Docker 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 IfNotPreser Cannot be updated. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/containers/images ↗
lifecycle	object	Actions that the management system should take in response to container lifecycle events. Cannot be updated.
livenessProbe	object	Periodic probe of container liveness. Container v1.4 and above will not allow a container to be restarted if the probe fails. Cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/lifecycle#container-probes ↗
name	string	Name of the container specified as a DNS_LABEL. Each container in a pod must have a unique name (DNS_LABEL). Cannot be updated.
ports	array	List of ports to expose from the container. Exposing a port gives the system additional information about the network connections a container uses, but is primarily informational. Note that specifying a port here DOES NOT prevent that port from being exposed. Any port which is listening on the default IP inside a container will be accessible from the outside. Cannot be updated.

Property	Type	Description
<code>readinessProbe</code>	<code>object</code>	Periodic probe of container service readiness. Container will be removed from service endpoints if the probe fails. More info: https://kubernetes.io/docs/concepts/workloads/pods/lifecycle#container-probes
<code>resources</code>	<code>object</code>	Compute Resources required by this container. More info: https://kubernetes.io/docs/concepts/configuration/resource-requirements
<code>securityContext</code>	<code>object</code>	SecurityContext defines the security options the container should be run with. If set, the fields of SecurityContext override equivalent fields of PodSecurityContext. More info: https://kubernetes.io/docs/tasks/configure-pod-container/security-context/
<code>startupProbe</code>	<code>object</code>	StartupProbe indicates that the Pod has successfully initialized. If specified, no other probes are executed until this successfully completes. If this probe fails, the Pod will be restarted. This can be used to probe parameters at the beginning of a Pod's life cycle that might take a long time to load data or warm a cache before entering steady-state operation. This cannot be updated. More info: https://kubernetes.io/docs/concepts/workloads/pods/lifecycle#container-probes

Property	Type	Description
<code>stdin</code>	<code>boolean</code>	Whether this container should allocate a buffer for container runtime. If this is not set, reads from stdin container will always result in EOF. Default is false
<code>stdinOnce</code>	<code>boolean</code>	Whether the container runtime should close the stdin stream after it has been opened by a single attach. When false, the stdin stream will remain open across multiple sessions. If stdinOnce is set to true, stdin is opened on container start, is empty until the first client attaches to stdin, remains open and accepts data until the client disconnects, at which time stdin is closed and remains closed until the container is restarted. If this flag is false, a container process that reads from stdin will never receive an EOF. Default is false
<code>terminationMessagePath</code>	<code>string</code>	Optional: Path at which the file to which the container termination message will be written is mounted in the container's filesystem. Message written is intended to be consumed by a user-defined process on the host. Message length across all containers will be limited by the node if greater than 4096 bytes. Defaults to /dev/termination-log. Cannot be updated.
<code>terminationMessagePolicy</code>	<code>string</code>	Indicate how the termination message should be handled. AllLogs will use the contents of terminationMessagePath to populate the container status message on both success and failure. FallbackToLogsOnError will use the last chunk of container log output if the termination message file is empty at the time the container exited with an error. The log output is limited to 2048 bytes or 2 lines, whichever is smaller. Defaults to File. Cannot be updated.

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

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].args`

Description

Arguments to the entrypoint. The docker 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.install.spec.deployments[].spec.template.spec.initContainers[].args[]`

Type

string

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].command`

Description

Entrypoint array. Not executed within a shell. The docker 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.install.spec.deployments[].spec.template.spec.initContainers[].command[]`

Type

string

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].env`

Description

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

Type

array

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].env[]`

Description

EnvVar represents an environment variable present in a Container.

Type

object

Required

name

Property	Type	Description
<code>name</code>	<code>string</code>	Name of the environment variable. Must be a C_IDENTIFIER.
<code>value</code>	<code>string</code>	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 "".

Property	Type	Description
<code>valueFrom</code>	<code>object</code>	Source for the environment variable's value. Cannot be used if value is not empty.

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

Property	Type	Description
<code>secretKeyRef</code>	<code>object</code>	Selects a key of a secret in the pod's namespace

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].env[].valueFrom.configMapKeyRef`

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
<code>key</code>	<code>string</code>	The key to select.
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?
<code>optional</code>	<code>boolean</code>	Specify whether the ConfigMap or its key must be defined

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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
<code>containerName</code>	<code>string</code>	Container name: required for volumes, optional for env vars
<code>divisor</code>	<code>int</code>	Specifies the output format of the exposed resources, defaults to "1"
<code>resource</code>	<code>string</code>	Required: resource to select

`.spec.install.spec.deployments[].spec.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
<code>key</code>	<code>string</code>	The key of the secret to select from. Must be a valid secret key.
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/secret

Property	Type	Description
		objects/names/#names  TODO: Add other useful fields. apiVersion, kind, uid?
<code>optional</code>	<code>boolean</code>	Specify whether the Secret or its key must be defined

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.initContainers[].envFrom[]`

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

Property	Type	Description
<code>configMapRef</code>	<code>object</code>	The ConfigMap to select from

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

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].envFrom[].configMapRef`

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?
<code>optional</code>	<code>boolean</code>	Specify whether the ConfigMap must be defined

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].envFrom[].secretRef`

Description

The Secret to select from

Type

object

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?
optional	boolean	Specify whether the Secret must be defined

.spec.install.spec.deployments[].spec.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 ↗

Property	Type	Description
<code>preStop</code>	<code>object</code>	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 reason for termination is passed to the handler. 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. 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.install.spec.deployments[].spec.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
<code>exec</code>	<code>object</code>	One and only one of the following should be specified. Exec specifies the action to take.
<code>httpGet</code>	<code>object</code>	HTTPGet specifies the http request to perform.
<code>tcpSocket</code>	<code>object</code>	TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].lifecycle.postStart.exec`

Description

One and only one of the following should be specified. Exec specifies the action to take.

Type

`object`

Property	Type	Description
<code>command</code>	<code>array</code>	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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.initContainers[].lifecycle.postStart.exec.command[]`

Type

string

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].lifecycle.postStart.httpGet`

Description

HTTPGet specifies the http request to perform.

Type

object

Required

port

Property	Type	Description
<code>host</code>	<code>string</code>	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
<code>httpHeaders</code>	<code>array</code>	Custom headers to set in the request. HTTP allows repeated headers.
<code>path</code>	<code>string</code>	Path to access on the HTTP server.
<code>port</code>		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.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].lifecycle.postStart.httpGet.httpHeaders`

Description

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

Type

`array`

`.spec.install.spec.deployments[].spec.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
value	string	The header field value

.spec.install.spec.deployments[].spec.template.spec.initContainers[].lifecycle.postStart.tcpSocket

Description

TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

Type

object

Required

port

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

Property	Type	Description
<code>port</code>	<code>int</code>	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.install.spec.deployments[].spec.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 reason for termination is passed to the handler. 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. 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
<code>exec</code>	<code>object</code>	One and only one of the following should be specified. Exec specifies the action to take.
<code>httpGet</code>	<code>object</code>	HTTPGet specifies the http request to perform.

Property	Type	Description
<code>tcpSocket</code>	<code>object</code>	TCP Socket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].lifecycle.preStop.exec`

Description

One and only one of the following should be specified. Exec specifies the action to take.

Type

`object`

Property	Type	Description
<code>command</code>	<code>array</code>	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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.initContainers[].lifecycle.preStop.exec.command[]

Type

string

.spec.install.spec.deployments[].spec.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.

Property	Type	Description
<code>path</code>	<code>string</code>	Path to access on the HTTP server.
<code>port</code>		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.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].lifecycle.preStop.httpGet.httpHeaders`

Description

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

Type

`array`

`.spec.install.spec.deployments[].spec.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
<code>name</code>	<code>string</code>	The header field name
<code>value</code>	<code>string</code>	The header field value

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].lifecycle.preStop.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

Type

`object`

Required

`port`

Property	Type	Description
<code>host</code>	<code>string</code>	Optional: Host name to connect to, defaults to the pod IP.
<code>port</code>		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.install.spec.deployments[].spec.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	One and only one of the following should be specified. Exec specifies the action to take.
failureThreshold	integer	Minimum consecutive failures for the probe to be considered failed after having succeeded. Minimum value is 1.
httpGet	object	HTTPGet specifies the http request to perform
initialDelaySeconds	integer	Number of seconds after the container has started before liveness probes are initiated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes
periodSeconds	integer	How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1.

Property	Type	Description
<code>successThreshold</code>	<code>integer</code>	Minimum consecutive successes for the probe to be considered successful after having failed. I Must be 1 for liveness and startup. Minimu
<code>tcpSocket</code>	<code>object</code>	TCPSocket specifies an action involving a TCP hooks not yet supported TODO: imple realistic TCP lifecycle hook
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes run pod are sent a termination signal and the ti processes are forcibly halted with a kill sign 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:
<code>timeoutSeconds</code>	<code>integer</code>	Number of seconds after which the probe t Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/workload/lifecycle#container-probes

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].livenessProbe.exec`

Description

One and only one of the following should be specified. Exec specifies the action to take.

Type

object

Property	Type	Description
<code>command</code>	<code>array</code>	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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.initContainers[].livenessProbe.exec.command[]`

Type

string

`.spec.install.spec.deployments[].spec.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.

Property	Type	Description
<code>port</code>		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.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].livenessProbe.httpGet.httpHeaders`

Description

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

Type

`array`

`.spec.install.spec.deployments[].spec.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
<code>name</code>	<code>string</code>	The header field name
<code>value</code>	<code>string</code>	The header field value

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].livenessProbe.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

Type

`object`

Required

`port`

Property	Type	Description
<code>host</code>	<code>string</code>	Optional: Host name to connect to, defaults to the pod IP.
<code>port</code>		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.install.spec.deployments[].spec.template.spec.initContainers[].ports`

Description

List of ports to expose from the container. Exposing a port here gives the system additional information about the network connections a container uses, but is primarily informational. 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. Cannot be updated.

Type

array

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].ports[]`

Description

ContainerPort represents a network port in a single container.

Type

object

Required

containerPort

Property	Type	Description
<code>containerPort</code>	<code>integer</code>	Number of port to expose on the pod's IP address. This must be a valid port number, $0 < x < 65536$.
<code>hostIP</code>	<code>string</code>	What host IP to bind the external port to.

Property	Type	Description
<code>hostPort</code>	<code>integer</code>	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.
<code>name</code>	<code>string</code>	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.
<code>protocol</code>	<code>string</code>	Protocol for port. Must be UDP, TCP, or SCTP. Defaults to "TCP".

`.spec.install.spec.deployments[].spec.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
<code>exec</code>	<code>object</code>	One and only one of the following should be specified. Exec specifies the action to take.

Property	Type	Description
<code>failureThreshold</code>	<code>integer</code>	Minimum consecutive failures for the probe considered failed after having succeeded. Minimum value is 1.
<code>httpGet</code>	<code>object</code>	HTTPGet specifies the http request to perf
<code>initialDelaySeconds</code>	<code>integer</code>	Number of seconds after the container has before liveness probes are initiated. More i https://kubernetes.io/docs/concepts/worklo lifecycle#container-probes
<code>periodSeconds</code>	<code>integer</code>	How often (in seconds) to perform the prot 10 seconds. Minimum value is 1.
<code>successThreshold</code>	<code>integer</code>	Minimum consecutive successes for the pr considered successful after having failed. I Must be 1 for liveness and startup. Minimu
<code>tcpSocket</code>	<code>object</code>	TCPSocket specifies an action involving a TCP hooks not yet supported TODO: imple realistic TCP lifecycle hook
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod need gracefully upon probe failure. The grace pe duration in seconds after the processes run pod are sent a termination signal and the ti

Property	Type	Description
		processes are forcibly halted with a kill signal value longer than the expected cleanup time process. If this value is nil, the pod's terminationGracePeriodSeconds will be used. Otherwise, this value overrides the value provided in the pod spec. Value must be non-negative integer. Value zero indicates stop immediately via SIGKILL (no opportunity to shut down). This is a beta feature and requires enabling ProbeTerminationGracePeriod. Minimum value is 1. spec.terminationGracePeriodSeconds is used.
timeoutSeconds	integer	Number of seconds after which the probe times out. Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/workloads/lifecycle#container-probes

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].readinessProbe.exec`

Description

One and only one of the following should be specified. 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

Property	Type	Description
		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.install.spec.deployments[].spec.template.spec.initContainers[].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.install.spec.deployments[].spec.template.spec.initContainers[].readinessProbe.exec.command[]

Type

string

.spec.install.spec.deployments[].spec.template.spec.initContainers[].readinessProbe.httpGet

Description

HTTPGet specifies the http request to perform.

Type

`object`**Required**`port`

Property	Type	Description
<code>host</code>	<code>string</code>	Host name to connect to, defaults to the pod IP. You probably want to set "Host" in httpHeaders instead.
<code>httpHeaders</code>	<code>array</code>	Custom headers to set in the request. HTTP allows repeated headers.
<code>path</code>	<code>string</code>	Path to access on the HTTP server.
<code>port</code>		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.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].readinessProbe.httpGet.httpHeaders`**Description**

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

Type

array

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].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
value	string	The header field value

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].readinessProbe.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

Type

object

Required

port

Property	Type	Description
<code>host</code>	<code>string</code>	Optional: Host name to connect to, defaults to the pod IP.
<code>port</code>	<code></code>	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.install.spec.deployments[].spec.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
<code>limits</code>	<code>object</code>	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

Property	Type	Description
<code>requests</code>	<code>object</code>	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. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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. More info: <https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/>

Type

`object`

`.spec.install.spec.deployments[].spec.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
<code>allowPrivilegeEscalation</code>	<code>boolean</code>	AllowPrivilegeEscalation controls whether a process can gain more privileges than its parent process. This bool directly controls if the <code>no_new_privs</code> 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
<code>capabilities</code>	<code>object</code>	The capabilities to add/drop when running containers. Defaults to the default set of capabilities granted by the container runtime.
<code>privileged</code>	<code>boolean</code>	Run container in privileged mode. Processes in privileged containers are essentially equivalent to root on the host. Defaults to false.

Property	Type	Description
<code>procMount</code>	<code>string</code>	<code>procMount</code> denotes the type of proc mount to use for the containers. The default is <code>DefaultProcMount</code> which uses the container runtime defaults for readonly paths and masked paths. This requires the <code>ProcMountType</code> feature flag to be enabled.
<code>readOnlyRootFilesystem</code>	<code>boolean</code>	Whether this container has a read-only root filesystem. Default is false.
<code>runAsGroup</code>	<code>integer</code>	The GID to run the entrypoint of the container process. Uses runtime default if unset. May also be set in <code>PodSecurityContext</code>. If set in both <code>SecurityContext</code> and <code>PodSecurityContext</code>, the value specified in <code>SecurityContext</code> takes precedence.
<code>runAsNonRoot</code>	<code>boolean</code>	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 <code>PodSecurityContext</code>. If set in both <code>SecurityContext</code> and <code>PodSecurityContext</code>, the value specified in <code>SecurityContext</code> takes precedence.

Property	Type	Description
<code>runAsUser</code>	<code>integer</code>	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.
<code>seLinuxOptions</code>	<code>object</code>	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.
<code>seccompProfile</code>	<code>object</code>	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.
<code>windowsOptions</code>	<code>object</code>	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.

`.spec.install.spec.deployments[].spec.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.

Type

object

Property	Type	Description
<code>add</code>	array	Added capabilities
<code>drop</code>	array	Removed capabilities

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].securityContext.capabilities.add`

Description

Added capabilities

Type

array

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].securityContext.capabilities.add[]`

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.install.spec.deployments[].spec.template.spec.initContainers[].securityContext.capabilities.drop

Description

Removed capabilities

Type

`array`

.spec.install.spec.deployments[].spec.template.spec.initContainers[].securityContext.capabilities.drop[]

Description

Capability represent POSIX capabilities type

Type

`string`

.spec.install.spec.deployments[].spec.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.

Type

`object`

Property	Type	Description
<code>level</code>	<code>string</code>	Level is SELinux level label that applies to the container.
<code>role</code>	<code>string</code>	Role is a SELinux role label that applies to the container.
<code>type</code>	<code>string</code>	Type is a SELinux type label that applies to the container.
<code>user</code>	<code>string</code>	User is a SELinux user label that applies to the container.

`.spec.install.spec.deployments[].spec.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.

Type

`object`

Required

`type`

Property	Type	Description
<code>localhostProfile</code>	<code>string</code>	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

Property	Type	Description
		seccomp profile location. Must only be set if type is "Localhost".
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.install.spec.deployments[].spec.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.

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 <code>GMSACredentialSpecName</code> field.

Property	Type	Description
<code>gmsaCredentialSpecName</code>	<code>string</code>	GMSACredentialSpecName is the name of the GMSA credential spec to use.
<code>hostProcess</code>	<code>boolean</code>	HostProcess determines if a container should be run as a 'Host Process' container. This field is alpha-level and will only be honored by components that enable the WindowsHostProcessContainers feature flag. Setting this field without the feature flag will result in errors when validating the Pod. 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.
<code>runAsUserName</code>	<code>string</code>	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.install.spec.deployments[].spec.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
<code>exec</code>	object	One and only one of the following should be specified. Exec specifies the action to take.
<code>failureThreshold</code>	integer	Minimum consecutive failures for the probe to be considered failed after having succeeded. Minimum value is 1.
<code>httpGet</code>	object	HTTPGet specifies the http request to perform
<code>initialDelaySeconds</code>	integer	Number of seconds after the container has started before liveness probes are initiated. More info: https://kubernetes.io/docs/concepts/workloads/pods/pod-lifecycle#container-probes
<code>periodSeconds</code>	integer	How often (in seconds) to perform the probe. Default to 10 seconds. Minimum value is 1.

Property	Type	Description
<code>successThreshold</code>	<code>integer</code>	Minimum consecutive successes for the probe to be considered successful after having failed. The probe must be 1 for liveness and startup. Minimum value is 1.
<code>tcpSocket</code>	<code>object</code>	TCPSocket specifies an action involving a TCP hook. TCP hooks not yet supported TODO: implement realistic TCP lifecycle hook
<code>terminationGracePeriodSeconds</code>	<code>integer</code>	Optional duration in seconds the pod needs to gracefully shutdown before it is killed. The grace period is the duration in seconds after the processes running on the pod are sent a termination signal and the time when the processes are forcibly halted with a kill signal. It specifies that the pod needs to terminate gracefully within this time if it hasn't yet done so by the time the termination signal is sent. If this value is nil, the pod's terminationGracePeriodSeconds will be used. Otherwise, this value overrides the value provided in the pod spec. Value must be non-negative integer. Value zero indicates stop immediately via SIGKILL (no opportunity to shut down). This is a beta feature and requires enabling ProbeTerminationGracePeriod. Minimum value is 1. spec.terminationGracePeriodSeconds is used.
<code>timeoutSeconds</code>	<code>integer</code>	Number of seconds after which the probe times out. Defaults to 1 second. Minimum value is 1. https://kubernetes.io/docs/concepts/workloads/lifecycle#container-probes

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].startupProbe.exec`

Description

One and only one of the following should be specified. Exec specifies the action to take.

Type

object

Property	Type	Description
<code>command</code>	<code>array</code>	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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.initContainers[].startupProbe.exec.command[]`

Type

`string`

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].startupProbe.httpGet`

Description

HTTPGet specifies the http request to perform.

Type

`object`

Required

`port`

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

Property	Type	Description
<code>port</code>		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.
<code>scheme</code>	<code>string</code>	Scheme to use for connecting to the host. Defaults to HTTP.

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].startupProbe.httpGet.httpHeaders`

Description

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

Type

`array`

`.spec.install.spec.deployments[].spec.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
<code>name</code>	<code>string</code>	The header field name
<code>value</code>	<code>string</code>	The header field value

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].startupProbe.tcpSocket`

Description

TCPSocket specifies an action involving a TCP port. TCP hooks not yet supported TODO: implement a realistic TCP lifecycle hook

Type

`object`

Required

`port`

Property	Type	Description
<code>host</code>	<code>string</code>	Optional: Host name to connect to, defaults to the pod IP.
<code>port</code>		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.install.spec.deployments[].spec.template.spec.initContainers[].volumeDevices`

Description

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

Type

array

`.spec.install.spec.deployments[].spec.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
<code>devicePath</code>	<code>string</code>	devicePath is the path inside of the container that the device will be mapped to.
<code>name</code>	<code>string</code>	name must match the name of a persistentVolumeClaim in the pod

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].volumeMounts`

Description

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

Type

array

`.spec.install.spec.deployments[].spec.template.spec.initContainers[].volumeMounts[]`

Description

VolumeMount describes a mounting of a Volume within a container.

Type

object

Required

mountPath

name

Property	Type	Description
<code>mountPath</code>	<code>string</code>	Path within the container at which the volume should be mounted. Must not contain '..'.
<code>mountPropagation</code>	<code>string</code>	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.
<code>name</code>	<code>string</code>	This must match the Name of a Volume.
<code>readOnly</code>	<code>boolean</code>	Mounted read-only if true, read-write otherwise (false or unspecified). Defaults to false.
<code>subPath</code>	<code>string</code>	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's

Property	Type	Description
		root).
<code>subPathExpr</code>	<code>string</code>	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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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> This field is beta-level as of Kubernetes v1.18, and is only honored by servers that enable the PodOverhead feature.

Type

object

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.readinessGates[]`

Description

PodReadinessGate contains the reference to a pod condition

Type

object

Required

conditionType

Property	Type	Description
<code>conditionType</code>	<code>string</code>	ConditionType refers to a condition in the pod's condition list with matching type.

`.spec.install.spec.deployments[].spec.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
<code>fsGroup</code>	<code>integer</code>	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.
<code>fsGroupChangePolicy</code>	<code>string</code>	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

Property	Type	Description
		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 "Always". If not specified, "Always" is used.
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.
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 container.

Property	Type	Description
<code>seLinuxOptions</code>	<code>object</code>	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.
<code>seccompProfile</code>	<code>object</code>	The seccomp options to use by the containers in this pod.
<code>supplementalGroups</code>	<code>array</code>	A list of groups applied to the first process run in each container, in addition to the container's primary GID. If unspecified, no groups will be added to any container.
<code>sysctls</code>	<code>array</code>	Sysctls hold a list of namespaced sysctls used for the pod. Pods with unsupported sysctls (by the container runtime) might fail to launch.
<code>windowsOptions</code>	<code>object</code>	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.

`.spec.install.spec.deployments[].spec.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.

Type

object

Property	Type	Description
<code>level</code>	<code>string</code>	Level is SELinux level label that applies to the container.
<code>role</code>	<code>string</code>	Role is a SELinux role label that applies to the container.
<code>type</code>	<code>string</code>	Type is a SELinux type label that applies to the container.
<code>user</code>	<code>string</code>	User is a SELinux user label that applies to the container.

`.spec.install.spec.deployments[].spec.template.spec.securityContext.seccompProfile`

Description

The seccomp options to use by the containers in this pod.

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 only be set if type is "Localhost".
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.install.spec.deployments[].spec.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. If unspecified, no groups will be added to any container.

Type

array

.spec.install.spec.deployments[].spec.template.spec.securityContext.supplementalGroups[]

Type

integer

`.spec.install.spec.deployments[].spec.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.

Type

array

`.spec.install.spec.deployments[].spec.template.spec.securityContext.sysctls[]`

Description

Sysctl defines a kernel parameter to be set

Type

object

Required

name

value

Property	Type	Description
<code>name</code>	<code>string</code>	Name of a property to set
<code>value</code>	<code>string</code>	Value of a property to set

.spec.install.spec.deployments[].spec.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.

Type

object

Property	Type	Description
<code>gmsaCredentialSpec</code>	<code>string</code>	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 <code>GMSACredentialSpecName</code> field.
<code>gmsaCredentialSpecName</code>	<code>string</code>	<code>GMSACredentialSpecName</code> is the name of the GMSA credential spec to use.
<code>hostProcess</code>	<code>boolean</code>	<code>HostProcess</code> determines if a container should be run as a 'Host Process' container. This field is alpha-level and will only be honored by components that enable the <code>WindowsHostProcessContainers</code> feature flag. Setting this field without the feature flag will result in errors when validating the Pod. All of a Pod's containers must have the same effective <code>HostProcess</code> value (it is not allowed to have a mix of <code>HostProcess</code> containers and

Property	Type	Description
		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.install.spec.deployments[].spec.template.spec.tolerations`

Description

If specified, the pod's tolerations.

Type

array

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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.
maxSkew	integer	MaxSkew describes the degree to which pods may be unevenly distributed. When <code>whenUnsatisfiable=DoNotSchedule</code> , it is the

Property	Type	Description
		maximum permitted difference between the number of matching pods in the target topology and the global minimum. For example, in a 3-zone cluster, MaxSkew is set to 1, and pods with the same labelSelector spread as 1/1/0: zone1 zone2 zone3 P P - if MaxSkew is 1, incoming pod can only be scheduled to zone3 to become 1/1/1; scheduling it onto zone1(zone2) would make the ActualSkew(2-0) on zone1(zone2) violate MaxSkew(1). - if MaxSkew is 2, incoming pod can be scheduled onto any zone. When <code>whenUnsatisfiable=ScheduleAnyway</code>, 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.
<code>topologyKey</code>	<code>string</code>	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. It's a required field.
<code>whenUnsatisfiable</code>	<code>string</code>	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

Property	Type	Description
		"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 <i>more</i> imbalanced. It's a required field.

`.spec.install.spec.deployments[].spec.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
<code>matchExpressions</code>	array	matchExpressions is a list of label selector requirements. The requirements are ANDed.

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

`.spec.install.spec.deployments[].spec.template.spec.topologySpreadConstraints[].labelSelector.matchExpressions`

Description

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

Type

`array`

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.topologySpreadConstraints[].labelSelector.matchExpressions[].values[]

Type

`string`

.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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
<code>awsElasticBlockStore</code>	<code>object</code>	AWSElasticBlockStore represents an AWS Disk resource to a kubelet's host machine and then exposed to the pod. More info: https://kubernetes.io/docs/concepts/storage/volumes#awselasticblockstore
<code>azureDisk</code>	<code>object</code>	AzureDisk represents an Azure Data Disk mount on the host and backed by an Azure Disk. More info: https://kubernetes.io/docs/concepts/storage/volumes#azuredisk
<code>azureFile</code>	<code>object</code>	AzureFile represents an Azure File Service mount on the host and backed by an Azure File share. More info: https://kubernetes.io/docs/concepts/storage/volumes#azurefile
<code>cephfs</code>	<code>object</code>	CephFS represents a Ceph FS mount on the host that shares a pod's lifetime
<code>cinder</code>	<code>object</code>	Cinder represents a cinder volume attached and mounted on host machines. More info: https://examples.k8s.io/my-cinder-pd/README.md
<code>configMap</code>	<code>object</code>	ConfigMap represents a configMap that should populate the container's environment. More info: https://kubernetes.io/docs/concepts/configuration/configmap
<code>csi</code>	<code>object</code>	CSI (Container Storage Interface) represents ephemeral storage that is handled by certain external CSI drivers (Beta feature)

Property	Type	Description
<code>downwardAPI</code>	<code>object</code>	DownwardAPI represents downward API about the pod to populate this volume
<code>emptyDir</code>	<code>object</code>	EmptyDir represents a temporary directory that shares lifecycle with the pod. More info: https://kubernetes.io/docs/concepts/storage/emptydir
<code>ephemeral</code>	<code>object</code>	Ephemeral represents a volume that is handled by a storage driver. The volume's lifecycle is tied to the pod that defines it: a) the volume is only needed while the pod runs, b) features like restoring from snapshot or capacity tracking are not supported. The storage driver is specified through a storage class. The storage driver supports dynamic volume provisioning through PersistentVolumeClaim (see EphemeralVolumeSource for information on the connection between this volume type and PersistentVolumeClaim). Use PersistentVolumeClaim for persistent volumes and vendor-specific APIs for volumes that persist for longer than an individual pod. Use CSI for light-weight local ephemeral volumes. CSI driver is meant to be used that way - see the documentation for more information. A pod can use both type of volumes and persistent volumes at the same time. Temporary volumes are only available when the GenericEphemeralVolume plugin is enabled.
<code>fc</code>	<code>object</code>	FC represents a Fibre Channel resource that is attached to the host machine and then exposed to the pod.

Property	Type	Description
<code>flexVolume</code>	<code>object</code>	FlexVolume represents a generic volume resource that is provisioned/attached using an exec based plugin.
<code>flocker</code>	<code>object</code>	Flocker represents a Flocker volume attached to a kubernetes node. This depends on the Flocker control service being running on the node.
<code>gcePersistentDisk</code>	<code>object</code>	GCEPersistentDisk represents a GCE Disk resource that is provisioned on kubelet's host machine and then exposed to the pod. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersistentdisk
<code>gitRepo</code>	<code>object</code>	GitRepo represents a git repository at a particular revision. DEPRECATED: GitRepo is deprecated. To provision a new repo, mount an EmptyDir into an InitContainer that clones the repo, then mount the EmptyDir into the Pod's container.
<code>glusterfs</code>	<code>object</code>	Glusterfs represents a Glusterfs mount on the host that shares a pod's lifetime. More info: https://examples.k8s.io/volumes/glusterfs/
<code>hostPath</code>	<code>object</code>	HostPath represents a pre-existing file or directory on the host that is directly exposed to the container. This is generally used for logging agents or other privileged things that are allowed to see the host. Most containers will NOT need this. More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath TODO(jonesdl) We need to restrict who can use hostPath and who can/can not mount host directories as read-only.

Property	Type	Description
<code>iscsi</code>	<code>object</code>	ISCSI represents an ISCSI Disk resource that is attached to the host machine and then exposed to the pod. More info: https://examples.k8s.io/volumes/iscsi/README.md
<code>name</code>	<code>string</code>	Volume's name. Must be a DNS_LABEL and unique within the namespace. info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names
<code>nfs</code>	<code>object</code>	NFS represents an NFS mount on the host that shares a pod-readable/writable filesystem. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes/#nfs
<code>persistentVolumeClaim</code>	<code>object</code>	PersistentVolumeClaimVolumeSource represents a PersistentVolumeClaim in the same namespace. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes/#persistentvolumeclaims
<code>photonPersistentDisk</code>	<code>object</code>	PhotonPersistentDisk represents a PhotonController persistent disk attached and mounted on kubelets host machine
<code>portworxVolume</code>	<code>object</code>	PortworxVolume represents a portworx volume attached and mounted on kubelets host machine
<code>projected</code>	<code>object</code>	Items for all in one resources secrets, configmaps, and persistent volume claims

Property	Type	Description
<code>quobyte</code>	<code>object</code>	Quobyte represents a Quobyte mount on the host th lifetime
<code>rbd</code>	<code>object</code>	RBD represents a Rados Block Device mount on the pod's lifetime. More info: https://examples.k8s.io/volumes/rbd/README.md
<code>scaleIO</code>	<code>object</code>	ScaleIO represents a ScaleIO persistent volume att Kubernetes nodes.
<code>secret</code>	<code>object</code>	Secret represents a secret that should populate this https://kubernetes.io/docs/concepts/storage/volumes
<code>storageos</code>	<code>object</code>	StorageOS represents a StorageOS volume attache Kubernetes nodes.
<code>vsphereVolume</code>	<code>object</code>	VsphereVolume represents a vSphere volume attac kubelets host machine

`.spec.install.spec.deployments[].spec.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	Filesystem type of the volume that you want to mount. Tip: Ensure filesystem type is supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. https://kubernetes.io/docs/concepts/storage/volumes#awselasticblockstore ↗ TODO: how do we prevent errors in the filesystem from coming from the machine
partition	integer	The partition in the volume that you want to mount. If omitted, the volume is to be mounted by volume name. Examples: For volume /dev/sda1, specify the partition as "1". Similarly, the volume partition for /dev/sda1 (or you can leave the property empty).
readOnly	boolean	Specify "true" to force and set the ReadOnly property in VolumeSpec to "true". If omitted, the default is "false". More info: https://kubernetes.io/docs/concepts/storage/volumes#awselasticblockstore ↗
volumeID	string	Unique ID of the persistent disk resource in AWS (Amazon EBS volume). More info: https://kubernetes.io/docs/concepts/storage/volumes#awselasticblockstore ↗

.spec.install.spec.deployments[].spec.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
cachedMode	string	Host Caching mode: None, Read Only, Read Write.
diskName	string	The Name of the data disk in the blob storage
diskURI	string	The URI the data disk in the blob storage
fsType	string	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	Expected values 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
<code>readOnly</code>	<code>boolean</code>	Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.

`.spec.install.spec.deployments[].spec.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
<code>readOnly</code>	<code>boolean</code>	Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
<code>secretName</code>	<code>string</code>	the name of secret that contains Azure Storage Account Name and Key
<code>shareName</code>	<code>string</code>	Share Name

`.spec.install.spec.deployments[].spec.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	Required: Monitors is a collection of Ceph monitors More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it
path	string	Optional: Used as the mounted root, rather than the full Ceph tree, default is /
readOnly	boolean	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	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
secretRef	object	Optional: SecretRef is reference to the authentication secret for User, default is empty. More info:

Property	Type	Description
		https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it ↗
<code>user</code>	<code>string</code>	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.install.spec.deployments[].spec.template.spec.volumes[].cephfs.monitors`

Description

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.install.spec.deployments[].spec.template.spec.volumes[].cephfs.monitors[]`

Type

`string`

`.spec.install.spec.deployments[].spec.template.spec.volumes[].cephfs.secretRef`

Description

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. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names [↗] TODO: Add other useful fields. apiVersion, kind, uid?

.spec.install.spec.deployments[].spec.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	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 [↗]

Property	Type	Description
<code>readOnly</code>	<code>boolean</code>	Optional: 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 ↗
<code>secretRef</code>	<code>object</code>	Optional: points to a secret object containing parameters used to connect to OpenStack.
<code>volumeID</code>	<code>string</code>	volume id used to identify the volume in cinder. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗

`.spec.install.spec.deployments[].spec.template.spec.volumes[].cinder.secretRef`

Description

Optional: points to a secret object containing parameters used to connect to OpenStack.

Type

`object`

Property	Type	Description
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?

.spec.install.spec.deployments[].spec.template.spec.volumes[].configMap

Description

ConfigMap represents a configMap that should populate this volume

Type

object

Property	Type	Description
defaultMode	integer	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	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. More info: https://kubernetes.io/docs/concepts/overview/working-with-

Property	Type	Description
		objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?
optional	boolean	Specify whether the ConfigMap or its keys must be defined

`.spec.install.spec.deployments[].spec.template.spec.volumes[].configMap.items`

Description

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.install.spec.deployments[].spec.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	The key to project.
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	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.install.spec.deployments[].spec.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
<code>driver</code>	<code>string</code>	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.
<code>fsType</code>	<code>string</code>	Filesystem type 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.
<code>nodePublishSecretRef</code>	<code>object</code>	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.
<code>readOnly</code>	<code>boolean</code>	Specifies a read-only configuration for the volume. Defaults to false (read/write).
<code>volumeAttributes</code>	<code>object</code>	VolumeAttributes stores driver-specific properties that are passed to the CSI driver. Consult your driver's documentation for supported values.

`.spec.install.spec.deployments[].spec.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
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.volumes[].downwardAPI.items

Description

Items is a list of downward API volume file

Type

array

.spec.install.spec.deployments[].spec.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 and namespace 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 '..'

Property	Type	Description
<code>resourceFieldRef</code>	<code>object</code>	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

`.spec.install.spec.deployments[].spec.template.spec.volumes[].downwardAPI.items[].fieldRef`

Description

Required: Selects a field of the pod: only annotations, labels, name and namespace are supported.

Type

`object`

Required

`fieldPath`

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

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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
<code>medium</code>	<code>string</code>	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 ↗
<code>sizeLimit</code>	<code>string</code>	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: http://kubernetes.io/docs/user-guide/volumes#emptydir ↗

`.spec.install.spec.deployments[].spec.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. This is a beta feature and only available when the GenericEphemeralVolume feature gate is enabled.

Type

object

Property	Type	Description
<code>volumeClaimTemplate</code>	object	Will be used to create a stand-alone PVC to provision the volume. The pod in which this <code>EphemeralVolumeSource</code> 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 <code><pod name>-<volume name></code> where <code><volume name></code> is the name from the <code>PodSpec.Volumes</code> 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 <i>not</i> 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.

`.spec.install.spec.deployments[].spec.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.
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.install.spec.deployments[].spec.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 modes the volume should have. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#access-modes-1
dataSource	object	This 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. If the AnyVolumeDataSource feature gate is enabled, this field will always have the same contents as the DataSourceRef field.
dataSourceRef	object	Specifies the object from which to populate the volume with data, if a non-empty volume is desired. This may be any local 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-

Property	Type	Description
		empty, they must have the same value. For backwards compatibility, 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. There are two 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. (Alpha) Using this field requires the AnyVolumeDataSource feature gate to be enabled.
resources	object	Resources represents the minimum resources the volume should have. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#resources ↗
selector	object	A label query over volumes to consider for binding.
storageClassName	string	Name of the StorageClass required by the claim. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#class-1 ↗

Property	Type	Description
<code>volumeMode</code>	<code>string</code>	<code>volumeMode</code> defines what type of volume is required by the claim. Value of <code>Filesystem</code> is implied when not included in claim spec.
<code>volumeName</code>	<code>string</code>	<code>VolumeName</code> is the binding reference to the <code>PersistentVolume</code> backing this claim.

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.accessModes[]`

Type

`string`

`.spec.install.spec.deployments[].spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.dataSource`

Description

This 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. If the AnyVolumeDataSource feature gate is enabled, this field will always have the same contents as the DataSourceRef field.

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.install.spec.deployments[].spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.dataSourceRef`

Description

Specifies the object from which to populate the volume with data, if a non-empty volume is desired. This may be any local 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, 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. There are two 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. (Alpha) Using this field requires the AnyVolumeDataSource 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

.spec.install.spec.deployments[].spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.resources

Description

Resources represents the minimum resources the volume should have. 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. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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. More info:

<https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/>

Type

object

`.spec.install.spec.deployments[].spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector`

Description

A label query over volumes to consider for binding.

Type

object

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

`.spec.install.spec.deployments[].spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions`

Description

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

Type

array

`.spec.install.spec.deployments[].spec.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.

Property	Type	Description
<code>values</code>	<code>array</code>	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.install.spec.deployments[].spec.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.install.spec.deployments[].spec.template.spec.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[].values[]`

Type

`string`

`.spec.install.spec.deployments[].spec.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.install.spec.deployments[].spec.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	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. TODO: how do we prevent errors in the filesystem from compromising the machine
lun	integer	Optional: FC target lun number
readOnly	boolean	Optional: Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
targetWWNs	array	Optional: FC target worldwide names (WWNs)

Property	Type	Description
<code>wwids</code>	<code>array</code>	Optional: FC volume world wide identifiers (wwids) Either wwids or combination of targetWWNs and lun must be set, but not both simultaneously.

`.spec.install.spec.deployments[].spec.template.spec.volumes[].fc.targetWWNs`

Description

Optional: FC target worldwide names (WWNs)

Type

`array`

`.spec.install.spec.deployments[].spec.template.spec.volumes[].fc.targetWWNs[]`

Type

`string`

`.spec.install.spec.deployments[].spec.template.spec.volumes[].fc.wwids`

Description

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.install.spec.deployments[].spec.template.spec.volumes[].fc.wwids[]`

Type

`string`

`.spec.install.spec.deployments[].spec.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
<code>driver</code>	<code>string</code>	Driver is the name of the driver to use for this volume.
<code>fsType</code>	<code>string</code>	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.
<code>options</code>	<code>object</code>	Optional: Extra command options if any.

Property	Type	Description
<code>readOnly</code>	<code>boolean</code>	Optional: Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
<code>secretRef</code>	<code>object</code>	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.install.spec.deployments[].spec.template.spec.volumes[].flexVolume.options`

Description

Optional: Extra command options if any.

Type

`object`

`.spec.install.spec.deployments[].spec.template.spec.volumes[].flexVolume.secretRef`

Description

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
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?

`.spec.install.spec.deployments[].spec.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
<code>datasetName</code>	<code>string</code>	Name of the dataset stored as metadata -> name on the dataset for Flocker should be considered as deprecated
<code>datasetUUID</code>	<code>string</code>	UUID of the dataset. This is unique identifier of a Flocker dataset

`.spec.install.spec.deployments[].spec.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	Filesystem type of the volume that you want to mount. Tip: Ensure 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#gcepersistentdisk ⚡ TODO: how do we prevent errors in the filesystem from compromising the machine
partition	integer	The partition in the volume that you want to mount. If omitted, the default is to mount by volume name. Examples: For volume /dev/sda you specify the partition as "1". Similarly, the volume partition for /dev/sda is "0" (or you can leave the property empty). More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersistentdisk ⚡
pdName	string	Unique name of the PD resource in GCE. Used to identify the disk in GCE. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersistentdisk ⚡

Property	Type	Description
<code>readOnly</code>	<code>boolean</code>	ReadOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis

`.spec.install.spec.deployments[].spec.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
<code>directory</code>	<code>string</code>	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.
<code>repository</code>	<code>string</code>	Repository URL

Property	Type	Description
<code>revision</code>	<code>string</code>	Commit hash for the specified revision.

`.spec.install.spec.deployments[].spec.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
<code>endpoints</code>	<code>string</code>	EndpointsName is the endpoint name that details Glusterfs topology. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod
<code>path</code>	<code>string</code>	Path is the Glusterfs volume path. More info: https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod
<code>readOnly</code>	<code>boolean</code>	ReadOnly here will force the Glusterfs volume to be mounted with read-only permissions. Defaults to false. More info:

Property	Type	Description
		https://examples.k8s.io/volumes/glusterfs/README.md#create-a-pod ↗

`.spec.install.spec.deployments[].spec.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> --- TODO(jonesdl) We need to restrict who can use host directory mounts and who can/can not mount host directories as read/write.

Type

object

Required

path

Property	Type	Description
<code>path</code>	<code>string</code>	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 ↗
<code>type</code>	<code>string</code>	Type for HostPath Volume Defaults to "" More info: https://kubernetes.io/docs/concepts/storage/volumes#hostpath ↗

.spec.install.spec.deployments[].spec.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	whether support iSCSI Discovery CHAP authentication
chapAuthSession	boolean	whether support iSCSI Session CHAP authentication
fsType	string	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#iscsi ⚠️ TODO: how do we prevent errors in the filesystem from compromising the machine
initiatorName	string	Custom iSCSI Initiator Name. If initiatorName is specified with iscsiInterface simultaneously, new iSCSI interface : will be created for the connection.

Property	Type	Description
<code>iqn</code>	<code>string</code>	Target iSCSI Qualified Name.
<code>iscsiInterface</code>	<code>string</code>	iSCSI Interface Name that uses an iSCSI transport. Defaults to 'default' (tcp).
<code>lun</code>	<code>integer</code>	iSCSI Target Lun number.
<code>portals</code>	<code>array</code>	iSCSI Target Portal List. The portal is either an IP or ip_addr:port if the port is other than default (typically TCF ports 860 and 3260).
<code>readOnly</code>	<code>boolean</code>	ReadOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false.
<code>secretRef</code>	<code>object</code>	CHAP Secret for iSCSI target and initiator authentication
<code>targetPortal</code>	<code>string</code>	iSCSI Target Portal. The Portal is either an IP or ip_addr:port if the port is other than default (typically TCF ports 860 and 3260).

.spec.install.spec.deployments[].spec.template.spec.volumes[].iscsi.portals

Description

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.install.spec.deployments[].spec.template.spec.volumes[].iscsi.portals[]

Type

string

.spec.install.spec.deployments[].spec.template.spec.volumes[].iscsi.secretRef

Description

CHAP Secret for iSCSI target and initiator authentication

Type

object

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names [↗] TODO: Add other useful fields. apiVersion, kind, uid?

.spec.install.spec.deployments[].spec.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 ↗
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.install.spec.deployments[].spec.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
<code>claimName</code>	<code>string</code>	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 ↗
<code>readOnly</code>	<code>boolean</code>	Will force the ReadOnly setting in VolumeMounts. Default false.

`.spec.install.spec.deployments[].spec.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
<code>fsType</code>	<code>string</code>	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.

Property	Type	Description
<code>pdID</code>	<code>string</code>	ID that identifies Photon Controller persistent disk

`.spec.install.spec.deployments[].spec.template.spec.volumes[].portworxVolume`

Description

PortworxVolume represents a portworx volume attached and mounted on kubelets host machine

Type

`object`

Required

`volumeID`

Property	Type	Description
<code>fsType</code>	<code>string</code>	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.
<code>readOnly</code>	<code>boolean</code>	Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
<code>volumeID</code>	<code>string</code>	VolumeID uniquely identifies a Portworx volume

`.spec.install.spec.deployments[].spec.template.spec.volumes[].projected`

Description

Items for all in one resources secrets, configmaps, and downward API

Type

object

Property	Type	Description
<code>defaultMode</code>	<code>integer</code>	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.
<code>sources</code>	<code>array</code>	list of volume projections

`.spec.install.spec.deployments[].spec.template.spec.volumes[].projected.sources`

Description

list of volume projections

Type

array

`.spec.install.spec.deployments[].spec.template.spec.volumes[].projected.sources[]`

Description

Projection that may be projected along with other supported volume types

Type

object

Property	Type	Description
<code>configMap</code>	object	information about the configMap data to project
<code>downwardAPI</code>	object	information about the downwardAPI data to project
<code>secret</code>	object	information about the secret data to project
<code>serviceAccountToken</code>	object	information about the serviceAccountToken data to project

`.spec.install.spec.deployments[].spec.template.spec.volumes[].projected.sources[].configMap`

Description

information about the configMap data to project

Type

object

Property	Type	Description
<code>items</code>	<code>array</code>	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 '..'.
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ✎ TODO: Add other useful fields. apiVersion, kind, uid?
<code>optional</code>	<code>boolean</code>	Specify whether the ConfigMap or its keys must be defined

`.spec.install.spec.deployments[].spec.template.spec.volumes[].projected.sources[].configMap.items`

Description

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.install.spec.deployments[].spec.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	The key to project.
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	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.install.spec.deployments[].spec.template.spec.volumes[].projected.sources[].downwardAPI`

Description

information about the downwardAPI data to project

Type

object

Property	Type	Description
<code>items</code>	array	Items is a list of DownwardAPIVolume file

`.spec.install.spec.deployments[].spec.template.spec.volumes[].projected.sources[].downwardAPI.items`

Description

Items is a list of DownwardAPIVolume file

Type

array

`.spec.install.spec.deployments[].spec.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
<code>fieldRef</code>	<code>object</code>	Required: Selects a field of the pod: only annotations, labels, name and namespace are supported.
<code>mode</code>	<code>integer</code>	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.
<code>path</code>	<code>string</code>	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 '..'
<code>resourceFieldRef</code>	<code>object</code>	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

`.spec.install.spec.deployments[].spec.template.spec.volumes[].projected.sources[].downwardAPI.items[].fieldRef`

Description

Required: Selects a field of the pod: only annotations, labels, name and namespace 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.install.spec.deployments[].spec.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
<code>containerName</code>	<code>string</code>	Container name: required for volumes, optional for env vars
<code>divisor</code>	<code>int</code>	Specifies the output format of the exposed resources, defaults to "1"
<code>resource</code>	<code>string</code>	Required: resource to select

`.spec.install.spec.deployments[].spec.template.spec.volumes[].projected.sources[].secret`

Description

information about the secret data to project

Type

`object`

Property	Type	Description
<code>items</code>	<code>array</code>	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 '..'.

Property	Type	Description
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?
<code>optional</code>	<code>boolean</code>	Specify whether the Secret or its key must be defined

`.spec.install.spec.deployments[].spec.template.spec.volumes[].projected.sources[].secret.items`

Description

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.install.spec.deployments[].spec.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	The key to project.
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	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.install.spec.deployments[].spec.template.spec.volumes[].projected.sources[].serviceAccountToken`

Description

information about the serviceAccountToken data to project

Type

object

Required

path

Property	Type	Description
<code>audience</code>	<code>string</code>	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.
<code>expirationSeconds</code>	<code>integer</code>	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.
<code>path</code>	<code>string</code>	Path is the path relative to the mount point of the file to project the token into.

`.spec.install.spec.deployments[].spec.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
<code>group</code>	<code>string</code>	Group to map volume access to Default is no group
<code>readOnly</code>	<code>boolean</code>	ReadOnly here will force the Quobyte volume to be mounted with read-only permissions. Defaults to false.
<code>registry</code>	<code>string</code>	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
<code>tenant</code>	<code>string</code>	Tenant owning the given Quobyte volume in the Backend Used with dynamically provisioned Quobyte volumes, value is set by the plugin
<code>user</code>	<code>string</code>	User to map volume access to Defaults to serviceaccount user
<code>volume</code>	<code>string</code>	Volume is a string that references an already created Quobyte volume by name.

`.spec.install.spec.deployments[].spec.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	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 [↗] TODO: how do we prevent errors in the filesystem from compromising the machine
image	string	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 [↗]
monitors	array	A collection of Ceph monitors. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it [↗]

Property	Type	Description
<code>pool</code>	<code>string</code>	The rados pool name. Default is rbd. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it
<code>readOnly</code>	<code>boolean</code>	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
<code>secretRef</code>	<code>object</code>	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
<code>user</code>	<code>string</code>	The rados user name. Default is admin. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it

`.spec.install.spec.deployments[].spec.template.spec.volumes[].rbd.monitors`

Description

A collection of Ceph monitors. More info: <https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it>

Type

`array`

`.spec.install.spec.deployments[].spec.template.spec.volumes[].rbd.monitors[]`

Type

`string`

`.spec.install.spec.deployments[].spec.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
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?

`.spec.install.spec.deployments[].spec.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	Filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Default is "xfs".
gateway	string	The host address of the ScaleIO API Gateway.
protectionDomain	string	The name of the ScaleIO Protection Domain for the configured storage.
readOnly	boolean	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	Flag to enable/disable SSL communication with Gateway, default false
storageMode	string	Indicates whether the storage for a volume should be ThickProvisioned or ThinProvisioned. Default is ThinProvisioned.

Property	Type	Description
<code>storagePool</code>	<code>string</code>	The ScaleIO Storage Pool associated with the protection domain.
<code>system</code>	<code>string</code>	The name of the storage system as configured in ScaleIO.
<code>volumeName</code>	<code>string</code>	The name of a volume already created in the ScaleIO system that is associated with this volume source.

`.spec.install.spec.deployments[].spec.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
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names [↗] TODO: Add other useful fields. apiVersion, kind, uid?

.spec.install.spec.deployments[].spec.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	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	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 '..'.
optional	boolean	Specify whether the Secret or its keys must be defined

Property	Type	Description
<code>secretName</code>	<code>string</code>	Name of the secret in the pod's namespace to use. More info: https://kubernetes.io/docs/concepts/storage/volumes#secret

`.spec.install.spec.deployments[].spec.template.spec.volumes[].secret.items`

Description

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.install.spec.deployments[].spec.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	The key to project.
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	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.install.spec.deployments[].spec.template.spec.volumes[].storageos`

Description

StorageOS represents a StorageOS volume attached and mounted on Kubernetes nodes.

Type

object

Property	Type	Description
fsType	string	Filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4",

Property	Type	Description
		"xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified.
<code>readOnly</code>	<code>boolean</code>	Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
<code>secretRef</code>	<code>object</code>	SecretRef specifies the secret to use for obtaining the StorageOS API credentials. If not specified, default values will be attempted.
<code>volumeName</code>	<code>string</code>	VolumeName is the human-readable name of the StorageOS volume. Volume names are only unique within a namespace.
<code>volumeNamespace</code>	<code>string</code>	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.install.spec.deployments[].spec.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. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?

.spec.install.spec.deployments[].spec.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	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.

Property	Type	Description
<code>storagePolicyID</code>	<code>string</code>	Storage Policy Based Management (SPBM) profile ID associated with the StoragePolicyName.
<code>storagePolicyName</code>	<code>string</code>	Storage Policy Based Management (SPBM) profile name.
<code>volumePath</code>	<code>string</code>	Path that identifies vSphere volume vmdk

`.spec.install.spec.permissions`

Type

`array`

`.spec.install.spec.permissions[]`

Description

StrategyDeploymentPermissions describe the rbac rules and service account needed by the install strategy

Type

`object`

Required

`rules``serviceAccountName`

Property	Type	Description
<code>rules</code>	<code>array</code>	
<code>serviceAccountName</code>	<code>string</code>	

`.spec.install.spec.permissions[].rules`

Type

array

`.spec.install.spec.permissions[].rules[]`

Description

PolicyRule holds information that describes a policy rule, but does not contain information about who the rule applies to or which namespace the rule applies to.

Type

object

Required

verbs

Property	Type	Description
<code>apiGroups</code>	array	APIGroups is the name of the APIGroup that contains the resources. If multiple API groups are specified, any action requested against one of the enumerated resources in any API group will be allowed.
<code>nonResourceURLs</code>	array	NonResourceURLs is a set of partial urls that a user should have access to. *s are allowed, but only as the full, final step in the path Since non-resource URLs are not namespaced, this field is only applicable for ClusterRoles referenced from a ClusterRoleBinding. Rules can either apply to API resources (such as "pods" or "secrets") or non-resource URL paths (such as "/api"), but not both.

Property	Type	Description
<code>resourceNames</code>	<code>array</code>	ResourceNames is an optional white list of names that the rule applies to. An empty set means that everything is allowed.
<code>resources</code>	<code>array</code>	Resources is a list of resources this rule applies to. '*' represents all resources.
<code>verbs</code>	<code>array</code>	Verbs is a list of Verbs that apply to ALL the ResourceKinds and AttributeRestrictions contained in this rule. '*' represents all verbs.

`.spec.install.spec.permissions[].rules[].apiGroups`

Description

APIGroups is the name of the APIGroup that contains the resources. If multiple API groups are specified, any action requested against one of the enumerated resources in any API group will be allowed.

Type

`array`

`.spec.install.spec.permissions[].rules[].apiGroups[]`

Type

`string`

`.spec.install.spec.permissions[].rules[].nonResourceURLs`

Description

NonResourceURLs is a set of partial urls that a user should have access to. *s are allowed, but only as the full, final step in the path Since non-resource URLs are not namespaced, this field is only applicable for ClusterRoles referenced from a ClusterRoleBinding. Rules can either apply to API resources (such as "pods" or "secrets") or non-resource URL paths (such as "/api"), but not both.

Type`array`

.spec.install.spec.permissions[].rules[].nonResourceURLs **[]**

Type`string`

.spec.install.spec.permissions[].rules[].resourceNames

Description

ResourceNames is an optional white list of names that the rule applies to. An empty set means that everything is allowed.

Type`array`

.spec.install.spec.permissions[].rules[].resourceNames[]

Type`string`

.spec.install.spec.permissions[].rules[].resources

Description

Resources is a list of resources this rule applies to. '*' represents all resources.

Type

`array`

.spec.install.spec.permissions[].rules[].resources[]

Type

`string`

.spec.install.spec.permissions[].rules[].verbs

Description

Verbs is a list of Verbs that apply to ALL the ResourceKinds and AttributeRestrictions contained in this rule. '*' represents all verbs.

Type

`array`

.spec.install.spec.permissions[].rules[].verbs[]

Type

`string`

.spec.installModes

Description

InstallModes specify supported installation types

Type

`array`

.spec.installModes[]

Description

InstallMode associates an InstallModeType with a flag representing if the CSV supports it

Type

`object`

Required

`supported``type`

Property	Type	Description
<code>supported</code>	<code>boolean</code>	
<code>type</code>	<code>string</code>	InstallModeType is a supported type of install mode for CSV installation

.spec.keywords

Type

`array`

.spec.keywords[]

Type

`string`

.spec.labels

Description

Map of string keys and values that can be used to organize and categorize (scope and select) objects.

Type

`object`

.spec.links

Type

`array`

`.spec.links[]`

Type

`object`

Property	Type	Description
<code>name</code>	<code>string</code>	
<code>url</code>	<code>string</code>	

`.spec.maintainers`

Type

`array`

`.spec.maintainers[]`

Type

`object`

Property	Type	Description
<code>email</code>	<code>string</code>	
<code>name</code>	<code>string</code>	

`.spec.nativeAPIs`

Type

`array`

.spec.nativeAPIs[]

Description

GroupVersionKind unambiguously identifies a kind. It doesn't anonymously include GroupVersion to avoid automatic coercion. It doesn't use a GroupVersion to avoid custom marshalling

Type

object

Required

group

kind

version

Property	Type	Description
group	string	
kind	string	
version	string	

.spec.provider

Type

object

Property	Type	Description
name	string	
url	string	

.spec.relatedImages

Description

List any related images, or other container images that your Operator might require to perform their functions. This list should also include operand images as well. All image references should be specified by digest (SHA) and not by tag. This field is only used during catalog creation and plays no part in cluster runtime.

Type

array

.spec.relatedImages[]

Type

object

Required

image

name

Property	Type	Description
image	string	
name	string	

.spec.selector

Description

Label selector for related resources.

Type

object

Property	Type	Description
matchExpressions	array	matchExpressions is a list of label selector requirements. The requirements are ANDed.

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

`.spec.selector.matchExpressions`

Description

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

Type

`array`

`.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
<code>key</code>	<code>string</code>	<code>key</code> is the label key that the selector applies to.

Property	Type	Description
<code>operator</code>	<code>string</code>	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.
<code>values</code>	<code>array</code>	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.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.selector.matchExpressions[].values[]`

Type

`string`

`.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.skips

Description

The name(s) of one or more CSV(s) that should be skipped in the upgrade graph. Should match the `metadata.Name` field of the CSV that should be skipped. This field is only used during catalog creation and plays no part in cluster runtime.

Type

`array`

.spec.skips[]

Type

`string`

.spec.webhookdefinitions

Type

`array`

.spec.webhookdefinitions[]

Description

WebhookDescription provides details to OLM about required webhooks

Type

`object`

Required

`admissionReviewVersions``generateName``sideEffects``type`

Property	Type	Description
admissionReviewVersions	array	
containerPort	integer	
conversionCRDs	array	
deploymentName	string	
failurePolicy	string	FailurePolicyType specifies a failure policy that defines how unrecognized errors from the admission endpoint are handled.
generateName	string	
matchPolicy	string	MatchPolicyType specifies the type of match policy.
objectSelector	object	A label selector is a label query over a set of resources. The result of matchLabels and matchExpressions are ANDed. An empty label selector matches all objects. A null label selector matches no objects.
reinvocationPolicy	string	ReinvocationPolicyType specifies what type of policy the admission hook uses.
rules	array	

Property	Type	Description
<code>sideEffects</code>	<code>string</code>	SideEffectClass specifies the types of side effects a webhook may have.
<code>targetPort</code>	<code></code>	
<code>timeoutSeconds</code>	<code>integer</code>	
<code>type</code>	<code>string</code>	WebhookAdmissionType is the type of admission webhooks supported by OLM
<code>webhookPath</code>	<code>string</code>	

`.spec.webhookdefinitions[].admissionReviewVersions`

Type

`array`

`.spec.webhookdefinitions[].admissionReviewVersions[]`

Type

`string`

`.spec.webhookdefinitions[].conversionCRDs`

Type

`array`

`.spec.webhookdefinitions[].conversionCRDs[]`

Type

`string`

`.spec.webhookdefinitions[].objectSelector`

Description

A label selector is a label query over a set of resources. The result of `matchLabels` and `matchExpressions` are ANDed. An empty label selector matches all objects. A null label selector matches no objects.

Type

`object`

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

`.spec.webhookdefinitions[].objectSelector.matchExpressions`

Description

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

Type

`array`

`.spec.webhookdefinitions[].objectSelector.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.webhookdefinitions[].objectSelector.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.webhookdefinitions[].objectSelector.matchExpressions[].values[]

Type

string

.spec.webhookdefinitions[].objectSelector.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.webhookdefinitions[].rules

Type

array

.spec.webhookdefinitions[].rules[]

Description

RuleWithOperations is a tuple of Operations and Resources. It is recommended to make sure that all the tuple expansions are valid.

Type

object

Property	Type	Description
<code>apiGroups</code>	<code>array</code>	APIGroups is the API groups the resources belong to. <i>"</i> is all groups. If <i>"</i> is present, the length of the slice must be one. Required.
<code>apiVersions</code>	<code>array</code>	APIVersions is the API versions the resources belong to. <i>"</i> is all versions. If <i>"</i> is present, the length of the slice must be one. Required.
<code>operations</code>	<code>array</code>	Operations is the operations the admission hook cares about - CREATE, UPDATE, DELETE, CONNECT or * for all of those operations and any future admission operations that are added. If '*' is present, the length of the slice must be one. Required.
<code>resources</code>	<code>array</code>	Resources is a list of resources this rule applies to. For example: 'pods' means pods. 'pods/log' means the log subresource of pods. <i>"</i> means all resources, but not subresources. 'pods/' means all subresources of pods. <i>'/scale'</i> means all scale subresources. <i>'/*'</i> means all resources and their subresources. If wildcard is present, the validation rule will ensure resources do not overlap with each other. Depending on the enclosing object, subresources might not be allowed. Required.
<code>scope</code>	<code>string</code>	scope specifies the scope of this rule. Valid values are "Cluster", "Namespaced", and "" <i>"Cluster"</i> means that only cluster-scoped resources will match this rule. Namespace API objects are cluster-scoped. <i>"Namespaced"</i> means that only namespaced resources will match this rule. <i>""</i> means

Property	Type	Description
		that there are no scope restrictions. Subresources match the scope of their parent resource. Default is "**".

`.spec.webhookdefinitions[].rules[].apiGroups`

Description

APIGroups is the API groups the resources belong to. '*' is all groups. If '*' is present, the length of the slice must be one. Required.

Type

array

`.spec.webhookdefinitions[].rules[].apiGroups[]`

Type

string

`.spec.webhookdefinitions[].rules[].apiVersions`

Description

APIVersions is the API versions the resources belong to. '*' is all versions. If '*' is present, the length of the slice must be one. Required.

Type

array

`.spec.webhookdefinitions[].rules[].apiVersions[]`

Type

string

`.spec.webhookdefinitions[].rules[].operations`

Description

Operations is the operations the admission hook cares about - CREATE, UPDATE, DELETE, CONNECT or * for all of those operations and any future admission operations that are added. If '*' is present, the length of the slice must be one. Required.

Type

array

`.spec.webhookdefinitions[].rules[].operations[]`

Description

OperationType specifies an operation for a request.

Type

string

`.spec.webhookdefinitions[].rules[].resources`

Description

Resources is a list of resources this rule applies to. For example: 'pods' means pods. 'pods/log' means the log subresource of pods. '*' means all resources, but not subresources. 'pods/*' means all subresources of pods. '*/scale' means all scale subresources. '*//*' means all resources and their subresources. If wildcard is present, the validation rule will ensure resources do not overlap with each other. Depending on the enclosing object, subresources might not be allowed. Required.

Type

array

`.spec.webhookdefinitions[].rules[].resources[]`

Type

string

.status

Description

ClusterServiceVersionStatus represents information about the status of a CSV. Status may trail the actual state of a system.

Type

object

Property	Type	Description
<code>certsLastUpdated</code>	<code>string</code>	Last time the owned APIService certs were updated
<code>certsRotateAt</code>	<code>string</code>	Time the owned APIService certs will rotate next
<code>cleanup</code>	<code>object</code>	CleanupStatus represents information about the status of cleanup while a CSV is pending deletion
<code>conditions</code>	<code>array</code>	List of conditions, a history of state transitions
<code>lastTransitionTime</code>	<code>string</code>	Last time the status transitioned from one status to another.
<code>lastUpdateTime</code>	<code>string</code>	Last time we updated the status
<code>message</code>	<code>string</code>	A human readable message indicating details about why the ClusterServiceVersion is in this

Property	Type	Description
		condition.
<code>phase</code>	<code>string</code>	Current condition of the ClusterServiceVersion
<code>reason</code>	<code>string</code>	A brief CamelCase message indicating details about why the ClusterServiceVersion is in this state. e.g. 'RequirementsNotMet'
<code>requirementStatus</code>	<code>array</code>	The status of each requirement for this CSV

.status.cleanup

Description

CleanupStatus represents information about the status of cleanup while a CSV is pending deletion

Type

`object`

Property	Type	Description
<code>pendingDeletion</code>	<code>array</code>	PendingDeletion is the list of custom resource objects that are pending deletion and blocked on finalizers. This indicates the progress of cleanup that is blocking CSV deletion or operator uninstall.

.status.cleanup.pendingDeletion

Description

PendingDeletion is the list of custom resource objects that are pending deletion and blocked on finalizers. This indicates the progress of cleanup that is blocking CSV deletion or operator uninstall.

Type

array

.status.cleanup.pendingDeletion[]

Description

ResourceList represents a list of resources which are of the same Group/Kind

Type

object

Required

group

instances

kind

Property	Type	Description
group	string	
instances	array	
kind	string	

.status.cleanup.pendingDeletion[].instances

Type

array

.status.cleanup.pendingDeletion[].instances[]

Type

object

Required

name

Property	Type	Description
name	string	
namespace	string	Namespace can be empty for cluster-scoped resources

.status.conditions

Description

List of conditions, a history of state transitions

Type

array

.status.conditions[]

Description

Conditions appear in the status as a record of state transitions on the ClusterServiceVersion

Type

object

Property	Type	Description
lastTransitionTime	string	Last time the status transitioned from one status to another.
lastUpdateTime	string	Last time we updated the status

Property	Type	Description
<code>message</code>	<code>string</code>	A human readable message indicating details about why the ClusterServiceVersion is in this condition.
<code>phase</code>	<code>string</code>	Condition of the ClusterServiceVersion
<code>reason</code>	<code>string</code>	A brief CamelCase message indicating details about why the ClusterServiceVersion is in this state. e.g. 'RequirementsNotMet'

`.status.requirementStatus`

Description

The status of each requirement for this CSV

Type

`array`

`.status.requirementStatus[]`

Type

`object`

Required

`group`

`kind`

`message`

`name`

`status`

`version`

Property	Type	Description
<code>dependents</code>	<code>array</code>	

Property	Type	Description
group	string	
kind	string	
message	string	
name	string	
status	string	StatusReason is a camelcased reason for the status of a RequirementStatus or DependentStatus
uuid	string	
version	string	

.status.requirementStatus[].dependents

Type

array

.status.requirementStatus[].dependents[]

Description

DependentStatus is the status for a dependent requirement (to prevent infinite nesting)

Type

object

Required

group

kind

status

version

Property	Type	Description
group	string	

Property	Type	Description
kind	string	
message	string	
status	string	StatusReason is a camelcased reason for the status of a RequirementStatus or DependentStatus
uuid	string	
version	string	

API Endpoints

The following API endpoints are available:

- `/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/clusterserviceversions`
 - `DELETE` : delete collection of ClusterServiceVersion
 - `GET` : list objects of kind ClusterServiceVersion
 - `POST` : create a new ClusterServiceVersion
- `/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/clusterserviceversions/{name}`
 - `DELETE` : delete the specified ClusterServiceVersion
 - `GET` : read the specified ClusterServiceVersion
 - `PATCH` : partially update the specified ClusterServiceVersion
 - `PUT` : replace the specified ClusterServiceVersion
- `/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/clusterserviceversions/{name}/status`

- **GET** : read status of the specified ClusterServiceVersion
- **PATCH** : partially update status of the specified ClusterServiceVersion
- **PUT** : replace status of the specified ClusterServiceVersion

/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/clusterserviceversions

HTTP method

DELETE

Description

delete collection of ClusterServiceVersion

HTTP responses

HTTP code	Response body
200 - OK	Status schema
401 - Unauthorized	Empty

HTTP method

GET

Description

list objects of kind ClusterServiceVersion

HTTP responses

HTTP code	Response body
200 - OK	ClusterServiceVersionList schema
401 - Unauthorized	Empty

HTTP method

POST

Description

create a new ClusterServiceVersion

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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
<code>body</code>	<code>ClusterServiceVersion</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>ClusterServiceVersion</code> schema
201 - Created	<code>ClusterServiceVersion</code> schema
202 - Accepted	<code>ClusterServiceVersion</code> schema
401 - Unauthorized	Empty

/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/clusterserviceversions/{name}

HTTP method

`DELETE`

Description

delete the specified ClusterServiceVersion

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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	<code>Status</code> schema
202 - Accepted	<code>Status</code> schema
401 - Unauthorized	Empty

HTTP method

GET

Description

read the specified ClusterServiceVersion

HTTP responses

HTTP code	Response body
200 - OK	<code>ClusterServiceVersion</code> schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update the specified ClusterServiceVersion

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> 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
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> 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	<code>ClusterServiceVersion</code> schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace the specified ClusterServiceVersion

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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	ClusterServiceVersion schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	ClusterServiceVersion schema
201 - Created	ClusterServiceVersion schema
401 - Unauthorized	Empty

/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/clusterserviceversions/{name}/status

HTTP method

GET

Description

read status of the specified ClusterServiceVersion

HTTP responses

HTTP code	Response body
200 - OK	<code>ClusterServiceVersion</code> schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update status of the specified ClusterServiceVersion

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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	<code>ClusterServiceVersion</code> schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace status of the specified ClusterServiceVersion

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> 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 <code>BadRequest</code> 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
<code>body</code>	<code>ClusterServiceVersion</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>ClusterServiceVersion</code> schema
201 - Created	<code>ClusterServiceVersion</code> schema
401 - Unauthorized	Empty

InstallPlan

[operators.coreos.com/v1alpha1]

Description

InstallPlan defines the installation of a set of operators.

Type

object

Required

metadata

spec

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

Property	Type	Description
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: 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	InstallPlanSpec defines a set of Application resources to be installed
status	object	InstallPlanStatus represents the information about the status of steps required to complete installation. Status may trail the actual state of a system.

.spec

Description

InstallPlanSpec defines a set of Application resources to be installed

Type

object

Required

approval

approved

clusterServiceVersionNames

Property	Type	Description
approval	string	Approval is the user approval policy for an InstallPlan. It must be one of "Automatic" or "Manual".
approved	boolean	
clusterServiceVersionNames	array	
generation	integer	
source	string	
sourceNamespace	string	

.spec.clusterServiceVersionNames

Type

array

.spec.clusterServiceVersionNames[]

Type

string

.status

Description

InstallPlanStatus represents the information about the status of steps required to complete installation. Status may trail the actual state of a system.

Type

object

Required

`catalogSources``phase`

Property	Type	Description
<code>attenuatedServiceAccountRef</code>	<code>object</code>	<code>AttenuatedServiceAccountRef</code> references the service account that is used to do scoped operator install.
<code>bundleLookups</code>	<code>array</code>	<code>BundleLookups</code> is the set of in-progress requests to pull and unpackage bundle content to the cluster.
<code>catalogSources</code>	<code>array</code>	
<code>conditions</code>	<code>array</code>	
<code>message</code>	<code>string</code>	<code>Message</code> is a human-readable message containing detailed information that may be important to understanding why the plan has its current status.
<code>phase</code>	<code>string</code>	<code>InstallPlanPhase</code> is the current status of a <code>InstallPlan</code> as a whole.
<code>plan</code>	<code>array</code>	
<code>startTime</code>	<code>string</code>	<code>StartTime</code> is the time when the controller began applying the resources listed in the plan to the cluster.

.status.attenuatedServiceAccountRef

Description

AttenuatedServiceAccountRef references the service account that is used to do scoped operator install.

Type

object

Property	Type	Description
apiVersion	string	API version of the referent.
fieldPath	string	If referring to a piece of an object instead of an entire object, this string should contain a valid JSON/Go field access statement, such as <code>desiredState.manifest.containers[2]</code>. For example, if the object reference is to a container within a pod, this would take on a value like: <code>"spec.containers{name}"</code> (where "name" refers to the name of the container that triggered the event) or if no container name is specified <code>"spec.containers[2]"</code> (container with index 2 in this pod). This syntax is chosen only to have some well-defined way of referencing a part of an object. TODO: this design is not final and this field is subject to change in the future.
kind	string	Kind of the referent. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds ↗

Property	Type	Description
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
<code>namespace</code>	<code>string</code>	Namespace of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/ ↗
<code>resourceVersion</code>	<code>string</code>	Specific resourceVersion to which this reference is made, if any. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#concurrency-control-and-consistency ↗
<code>uid</code>	<code>string</code>	UID of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#uids ↗

.status.bundleLookups

Description

BundleLookups is the set of in-progress requests to pull and unpackage bundle content to the cluster.

Type

`array`

.status.bundleLookups[]

Description

BundleLookup is a request to pull and unpackage the content of a bundle to the cluster.

Type

object

Required

catalogSourceRef

identifier

path

replaces

Property	Type	Description
catalogSourceRef	object	CatalogSourceRef is a reference to the CatalogSource the bundle path was resolved from.
conditions	array	Conditions represents the overall state of a BundleLookup.
identifier	string	Identifier is the catalog-unique name of the operator (the name of the CSV for bundles that contain CSVs)
path	string	Path refers to the location of a bundle to pull. It's typically an image reference.
properties	string	The effective properties of the unpacked bundle.
replaces	string	Replaces is the name of the bundle to replace with the one found at Path.

.status.bundleLookups[].catalogSourceRef

Description

CatalogSourceRef is a reference to the CatalogSource the bundle path was resolved from.

Type

object

Property	Type	Description
apiVersion	string	API version of the referent.
fieldPath	string	If referring to a piece of an object instead of an entire object, this string should contain a valid JSON/Go field access statement, such as <code>desiredState.manifest.containers[2]</code>. For example, if the object reference is to a container within a pod, this would take on a value like: <code>"spec.containers{name}"</code> (where "name" refers to the name of the container that triggered the event) or if no container name is specified <code>"spec.containers[2]"</code> (container with index 2 in this pod). This syntax is chosen only to have some well-defined way of referencing a part of an object. TODO: this design is not final and this field is subject to change in the future.
kind	string	Kind of the referent. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds ↗
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-

Property	Type	Description
		with-objects/names/#names ↗
<code>namespace</code>	<code>string</code>	Namespace of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/ ↗
<code>resourceVersion</code>	<code>string</code>	Specific resourceVersion to which this reference is made, if any. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#concurrency-control-and-consistency ↗
<code>uid</code>	<code>string</code>	UID of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#uids ↗

`.status.bundleLookups[].conditions`

Description

Conditions represents the overall state of a BundleLookup.

Type

`array`

`.status.bundleLookups[].conditions[]`

Type

`object`

Required

`status``type`

Property	Type	Description
<code>lastTransitionTime</code>	<code>string</code>	Last time the condition transitioned from one status to another.
<code>lastUpdateTime</code>	<code>string</code>	Last time the condition was probed.
<code>message</code>	<code>string</code>	A human readable message indicating details about the transition.
<code>reason</code>	<code>string</code>	The reason for the condition's last transition.
<code>status</code>	<code>string</code>	Status of the condition, one of True, False, Unknown.
<code>type</code>	<code>string</code>	Type of condition.

.status.catalogSources

Type

`array`

.status.catalogSources[]

Type

`string`

.status.conditions

Type

`array`

.status.conditions[]

Description

InstallPlanCondition represents the overall status of the execution of an InstallPlan.

Type

`object`

Property	Type	Description
<code>lastTransitionTime</code>	<code>string</code>	
<code>lastUpdateTime</code>	<code>string</code>	
<code>message</code>	<code>string</code>	
<code>reason</code>	<code>string</code>	ConditionReason is a camelcased reason for the state transition.
<code>status</code>	<code>string</code>	
<code>type</code>	<code>string</code>	InstallPlanConditionType describes the state of an InstallPlan at a certain point as a whole.

.status.plan

Type

array

.status.plan[]

Description

Step represents the status of an individual step in an InstallPlan.

Type

object

Required

resolving

resource

status

Property	Type	Description
resolving	string	
resource	object	StepResource represents the status of a resource to be tracked by an InstallPlan.
status	string	StepStatus is the current status of a particular resource an in InstallPlan

.status.plan[].resource

Description

StepResource represents the status of a resource to be tracked by an InstallPlan.

Type

object

Required

group

kind

name

sourceName

sourceNamespace

version

Property	Type	Description
group	string	
kind	string	
manifest	string	
name	string	
sourceName	string	
sourceNamespace	string	
version	string	

API Endpoints

The following API endpoints are available:

- `/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/installplans`
 - `DELETE` : delete collection of InstallPlan
 - `GET` : list objects of kind InstallPlan
 - `POST` : create a new InstallPlan
- `/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/installplans/{name}`
 - `DELETE` : delete the specified InstallPlan
 - `GET` : read the specified InstallPlan
 - `PATCH` : partially update the specified InstallPlan
 - `PUT` : replace the specified InstallPlan
- `/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/installplans/{name}/status`

- **GET** : read status of the specified InstallPlan
- **PATCH** : partially update status of the specified InstallPlan
- **PUT** : replace status of the specified InstallPlan

/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/installplans

HTTP method

DELETE

Description

delete collection of InstallPlan

HTTP responses

HTTP code	Response body
200 - OK	Status schema
401 - Unauthorized	Empty

HTTP method

GET

Description

list objects of kind InstallPlan

HTTP responses

HTTP code	Response body
200 - OK	InstallPlanList schema
401 - Unauthorized	Empty

HTTP method

POST

Description

create a new InstallPlan

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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
<code>body</code>	<code>InstallPlan</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>InstallPlan</code> schema
201 - Created	<code>InstallPlan</code> schema
202 - Accepted	<code>InstallPlan</code> schema
401 - Unauthorized	Empty

/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/installplans/{name}

HTTP method

`DELETE`

Description

delete the specified InstallPlan

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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	<code>Status</code> schema
202 - Accepted	<code>Status</code> schema
401 - Unauthorized	Empty

HTTP method

GET

Description

read the specified InstallPlan

HTTP responses

HTTP code	Response body
200 - OK	<code>InstallPlan</code> schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update the specified InstallPlan

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> 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
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> 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	<code>InstallPlan</code> schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace the specified InstallPlan

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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	InstallPlan schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	InstallPlan schema
201 - Created	InstallPlan schema
401 - Unauthorized	Empty

/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/installplans/{name}/status

HTTP method

GET

Description

read status of the specified InstallPlan

HTTP responses

HTTP code	Response body
200 - OK	<code>InstallPlan</code> schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update status of the specified InstallPlan

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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	<code>InstallPlan</code> schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace status of the specified InstallPlan

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> 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 <code>BadRequest</code> 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
<code>body</code>	<code>InstallPlan</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>InstallPlan</code> schema
201 - Created	<code>InstallPlan</code> schema
401 - Unauthorized	Empty

OLMConfig [operators.coreos.com/v1]

Description

OLMConfig is a resource responsible for configuring OLM.

Type

object

Required

metadata

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

Property	Type	Description
		CamelCase. More info: 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	OLMConfigSpec is the spec for an OLMConfig resource.
status	object	OLMConfigStatus is the status for an OLMConfig resource.

.spec

Description

OLMConfigSpec is the spec for an OLMConfig resource.

Type

object

Property	Type	Description
features	object	Features contains the list of configurable OLM features.

.spec.features

Description

Features contains the list of configurable OLM features.

Type

object

Property	Type	Description
<code>disableCopiedCSVs</code>	<code>boolean</code>	DisableCopiedCSVs is used to disable OLM's "Copied CSV" feature for operators installed at the cluster scope, where a cluster scoped operator is one that has been installed in an OperatorGroup that targets all namespaces. When reenabled, OLM will recreate the "Copied CSVs" for each cluster scoped operator.

.status

Description

OLMConfigStatus is the status for an OLMConfig resource.

Type

object

Property	Type	Description
<code>conditions</code>	<code>array</code>	

.status.conditions

Type

array

.status.conditions[]

Description

Condition contains details for one aspect of the current state of this API Resource. --- This struct is intended for direct use as an array at the field path `.status.conditions`. For example, type `FooStatus struct{ // Represents the observations of a foo's current state. // Known .status.conditions.type are: "Available", "Progressing", and "Degraded" // +patchMergeKey=type // +patchStrategy=merge // +listType=map // +listMapKey=type Conditions []metav1.Condition `json:"conditions,omitempty" patchStrategy:"merge" patchMergeKey:"type" protobuf:"bytes,1,rep,name=conditions"` // other fields }`

Type

object

Required

lastTransitionTime message reason status type

Property	Type	Description
lastTransitionTime	string	lastTransitionTime is the last time the condition transitioned from one status to another. This should be when the underlying condition changed. If that is not known, then using the time when the API field changed is acceptable.
message	string	message is a human readable message indicating details about the transition. This may be an empty string.
observedGeneration	integer	observedGeneration represents the .metadata.generation that the condition was set based upon. For instance, if .metadata.generation is currently 12, but the .status.conditions[x].observedGeneration is 9, the condition is out of date with respect to the current state of the instance.

Property	Type	Description
<code>reason</code>	<code>string</code>	reason contains a programmatic identifier indicating the reason for the condition's last transition. Producers of specific condition types may define expected values and meanings for this field, and whether the values are considered a guaranteed API. The value should be a CamelCase string. This field may not be empty.
<code>status</code>	<code>string</code>	status of the condition, one of True, False, Unknown.
<code>type</code>	<code>string</code>	type of condition in CamelCase or in foo.example.com/CamelCase. --- Many .condition.type values are consistent across resources like Available, but because arbitrary conditions can be useful (see .node.status.conditions), the ability to deconflict is important. The regex it matches is (dns1123SubdomainFmt)?(qualifiedNameFmt)

API Endpoints

The following API endpoints are available:

- `/apis/operators.coreos.com/v1/olmconfigs`
 - `DELETE` : delete collection of OLMConfig
 - `GET` : list objects of kind OLMConfig
 - `POST` : create a new OLMConfig

- `/apis/operators.coreos.com/v1/olmconfigs/{name}`
 - `DELETE` : delete the specified OLMConfig
 - `GET` : read the specified OLMConfig
 - `PATCH` : partially update the specified OLMConfig
 - `PUT` : replace the specified OLMConfig
- `/apis/operators.coreos.com/v1/olmconfigs/{name}/status`
 - `GET` : read status of the specified OLMConfig
 - `PATCH` : partially update status of the specified OLMConfig
 - `PUT` : replace status of the specified OLMConfig

/apis/operators.coreos.com/v1/olmconfigs

HTTP method

`DELETE`

Description

delete collection of OLMConfig

HTTP responses

HTTP code	Response body
200 - OK	<code>Status</code> schema
401 - Unauthorized	Empty

HTTP method

`GET`

Description

list objects of kind OLMConfig

HTTP responses

HTTP code	Response body
200 - OK	<code>OLMConfigList</code> schema
401 - Unauthorized	Empty

HTTP method

`POST`

Description

create a new OLMConfig

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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
<code>body</code>	<code>OLMConfig</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>OLMConfig</code> schema
201 - Created	<code>OLMConfig</code> schema
202 - Accepted	<code>OLMConfig</code> schema
401 - Unauthorized	Empty

/apis/operators.coreos.com/v1/olmconfigs/{name}

HTTP method

`DELETE`

Description

delete the specified OLMConfig

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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	<code>Status</code> schema
202 - Accepted	<code>Status</code> schema
401 - Unauthorized	Empty

HTTP method

`GET`

Description

read the specified OLMConfig

HTTP responses

HTTP code	Response body
200 - OK	<code>OLMConfig</code> schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update the specified OLMConfig

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore:

Parameter	Type	Description
		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	<code>OLMConfig</code> schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace the specified OLMConfig

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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
<code>body</code>	<code>OLMConfig</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>OLMConfig</code> schema
201 - Created	<code>OLMConfig</code> schema
401 - Unauthorized	Empty

/apis/operators.coreos.com/v1/olmconfigs/{name}/status

HTTP method

GET

Description

read status of the specified OLMConfig

HTTP responses

HTTP code	Response body
200 - OK	<code>OLMConfig</code> schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update status of the specified OLMConfig

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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

Parameter	Type	Description
		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	<code>OLMConfig</code> schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace status of the specified OLMConfig

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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

Parameter	Type	Description
		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	OLMConfig schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	OLMConfig schema
201 - Created	OLMConfig schema
401 - Unauthorized	Empty

OperatorCondition

[operators.coreos.com/v1]

Description

OperatorCondition is a Custom Resource of type `OperatorCondition` which is used to convey information to OLM about the state of an operator.

Type

`object`

Required

`metadata`

Specification

Property	Type	Description
<code>apiVersion</code>	<code>string</code>	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 ↗

Property	Type	Description
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: 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	OperatorConditionSpec allows an operator to report state to OLM and provides cluster admin with the ability to manually override state reported by the operator.
status	object	OperatorConditionStatus allows OLM to convey which conditions have been observed.

.spec

Description

OperatorConditionSpec allows an operator to report state to OLM and provides cluster admin with the ability to manually override state reported by the operator.

Type

object

Property	Type	Description
<code>conditions</code>	<code>array</code>	
<code>deployments</code>	<code>array</code>	
<code>overrides</code>	<code>array</code>	
<code>serviceAccounts</code>	<code>array</code>	

`.spec.conditions`

Type

`array`

`.spec.conditions[]`

Description

Condition contains details for one aspect of the current state of this API Resource. --- This struct is intended for direct use as an array at the field path `.status.conditions`. For example, type `FooStatus` struct{ // Represents the observations of a foo's current state. // Known .status.conditions.type are: "Available", "Progressing", and "Degraded" // +patchMergeKey=type // +patchStrategy=merge // +listType=map // +listMapKey=type Conditions []metav1.Condition `json:"conditions,omitempty" patchStrategy:"merge" patchMergeKey:"type" protobuf:"bytes,1,rep,name=conditions"` // other fields }

Type

`object`

Required

`lastTransitionTime` `message` `reason` `status` `type`

Property	Type	Description
<code>lastTransitionTime</code>	<code>string</code>	<code>lastTransitionTime</code> is the last time the condition transitioned from one status to another. This

Property	Type	Description
		should be when the underlying condition changed. If that is not known, then using the time when the API field changed is acceptable.
message	string	message is a human readable message indicating details about the transition. This may be an empty string.
observedGeneration	integer	observedGeneration represents the .metadata.generation that the condition was set based upon. For instance, if .metadata.generation is currently 12, but the .status.conditions[x].observedGeneration is 9, the condition is out of date with respect to the current state of the instance.
reason	string	reason contains a programmatic identifier indicating the reason for the condition's last transition. Producers of specific condition types may define expected values and meanings for this field, and whether the values are considered a guaranteed API. The value should be a CamelCase string. This field may not be empty.
status	string	status of the condition, one of True, False, Unknown.

Property	Type	Description
<code>type</code>	<code>string</code>	type of condition in CamelCase or in foo.example.com/CamelCase. --- Many .condition.type values are consistent across resources like Available, but because arbitrary conditions can be useful (see .node.status.conditions), the ability to deconflict is important. The regex it matches is (dns1123SubdomainFmt/)?(qualifiedNameFmt)

`.spec.deployments`

Type

`array`

`.spec.deployments[]`

Type

`string`

`.spec.overrides`

Type

`array`

`.spec.overrides[]`

Description

Condition contains details for one aspect of the current state of this API Resource. --- This struct is intended for direct use as an array at the field path `.status.conditions`. For example, type FooStatus struct{ // Represents the observations of a foo's current state. // Known

```
.status.conditions.type are: "Available", "Progressing", and "Degraded" //
+patchMergeKey=type // +patchStrategy=merge // +listType=map // +listMapKey=type
Conditions []metav1.Condition `json:"conditions,omitempty" patchStrategy:"merge"
patchMergeKey:"type" protobuf:"bytes,1,rep,name=conditions" // other fields }
```

Type

object

Required

message

reason

status

type

Property	Type	Description
lastTransitionTime	string	lastTransitionTime is the last time the condition transitioned from one status to another. This should be when the underlying condition changed. If that is not known, then using the time when the API field changed is acceptable.
message	string	message is a human readable message indicating details about the transition. This may be an empty string.
observedGeneration	integer	observedGeneration represents the .metadata.generation that the condition was set based upon. For instance, if .metadata.generation is currently 12, but the .status.conditions[x].observedGeneration is 9, the condition is out of date with respect to the current state of the instance.
reason	string	reason contains a programmatic identifier indicating the reason for the condition's last

Property	Type	Description
		transition. Producers of specific condition types may define expected values and meanings for this field, and whether the values are considered a guaranteed API. The value should be a CamelCase string. This field may not be empty.
status	string	status of the condition, one of True, False, Unknown.
type	string	type of condition in CamelCase or in foo.example.com/CamelCase. --- Many .condition.type values are consistent across resources like Available, but because arbitrary conditions can be useful (see .node.status.conditions), the ability to deconflict is important. The regex it matches is (dns1123SubdomainFmt/)?(qualifiedNameFmt)

.spec.serviceAccounts

Type

array

.spec.serviceAccounts[]

Type

string

.status

Description

OperatorConditionStatus allows OLM to convey which conditions have been observed.

Type

object

Property	Type	Description
conditions	array	

.status.conditions

Type

array

.status.conditions[]

Description

Condition contains details for one aspect of the current state of this API Resource. --- This struct is intended for direct use as an array at the field path .status.conditions. For example,

```
type FooStatus struct{ // Represents the observations of a foo's current state. // Known .status.conditions.type are: "Available", "Progressing", and "Degraded" // +patchMergeKey=type // +patchStrategy=merge // +listType=map // +listMapKey=type
Conditions []metav1.Condition `json:"conditions,omitempty" patchStrategy:"merge" patchMergeKey:"type" protobuf:"bytes,1,rep,name=conditions" // other fields }
```

Type

object

Required

lastTransitionTime

message

reason

status

type

Property	Type	Description
lastTransitionTime	string	lastTransitionTime is the last time the condition transitioned from one status to another. This

Property	Type	Description
		should be when the underlying condition changed. If that is not known, then using the time when the API field changed is acceptable.
message	string	message is a human readable message indicating details about the transition. This may be an empty string.
observedGeneration	integer	observedGeneration represents the .metadata.generation that the condition was set based upon. For instance, if .metadata.generation is currently 12, but the .status.conditions[x].observedGeneration is 9, the condition is out of date with respect to the current state of the instance.
reason	string	reason contains a programmatic identifier indicating the reason for the condition's last transition. Producers of specific condition types may define expected values and meanings for this field, and whether the values are considered a guaranteed API. The value should be a CamelCase string. This field may not be empty.
status	string	status of the condition, one of True, False, Unknown.

Property	Type	Description
<code>type</code>	<code>string</code>	type of condition in CamelCase or in foo.example.com/CamelCase. --- Many .condition.type values are consistent across resources like Available, but because arbitrary conditions can be useful (see .node.status.conditions), the ability to deconflict is important. The regex it matches is (dns1123SubdomainFmt/)?(qualifiedNameFmt)

API Endpoints

The following API endpoints are available:

- `/apis/operators.coreos.com/v2/namespaces/{namespace}/operatorconditions`
 - `DELETE` : delete collection of OperatorCondition
 - `GET` : list objects of kind OperatorCondition
 - `POST` : create a new OperatorCondition
- `/apis/operators.coreos.com/v2/namespaces/{namespace}/operatorconditions/{name}`
 - `DELETE` : delete the specified OperatorCondition
 - `GET` : read the specified OperatorCondition
 - `PATCH` : partially update the specified OperatorCondition
 - `PUT` : replace the specified OperatorCondition
- `/apis/operators.coreos.com/v2/namespaces/{namespace}/operatorconditions/{name}/status`
 - `GET` : read status of the specified OperatorCondition
 - `PATCH` : partially update status of the specified OperatorCondition

- **PUT** : replace status of the specified OperatorCondition

/apis/operators.coreos.com/v2/namespaces/{namespace}/operatorconditions

HTTP method

DELETE

Description

delete collection of OperatorCondition

HTTP responses

HTTP code	Response body
200 - OK	Status schema
401 - Unauthorized	Empty

HTTP method

GET

Description

list objects of kind OperatorCondition

HTTP responses

HTTP code	Response body
200 - OK	OperatorConditionList schema
401 - Unauthorized	Empty

HTTP method

POST

Description

create a new OperatorCondition

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> 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
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> 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 <code>BadRequest</code> 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
<code>body</code>	<code>OperatorCondition</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>OperatorCondition</code> schema

HTTP code	Response body
201 - Created	<code>OperatorCondition</code> schema
202 - Accepted	<code>OperatorCondition</code> schema
401 - Unauthorized	Empty

/apis/operators.coreos.com/v2/namespaces/{namespace}/operatorconditions/{name}

HTTP method

`DELETE`

Description

delete the specified OperatorCondition

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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	<code>Status</code> schema
202 - Accepted	<code>Status</code> schema
401 - Unauthorized	Empty

HTTP method

GET

Description

read the specified OperatorCondition

HTTP responses

HTTP code	Response body
200 - OK	<code>OperatorCondition</code> schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update the specified OperatorCondition

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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

Parameter	Type	Description
		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	<code>OperatorCondition</code> schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace the specified OperatorCondition

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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

Parameter	Type	Description
		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	OperatorCondition schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	OperatorCondition schema
201 - Created	OperatorCondition schema
401 - Unauthorized	Empty

/apis/operators.coreos.com/v2/namespaces/{namespace}/operatorconditions/{name}/status

HTTP method

GET

Description

read status of the specified OperatorCondition

HTTP responses

HTTP code	Response body
200 - OK	<code>OperatorCondition</code> schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update status of the specified OperatorCondition

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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	<code>OperatorCondition</code> schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace status of the specified OperatorCondition

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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
<code>body</code>	<code>OperatorCondition</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>OperatorCondition</code> schema
201 - Created	<code>OperatorCondition</code> schema
401 - Unauthorized	Empty

OperatorGroup [operators.coreos.com/v1]

Description

OperatorGroup is the unit of multitenancy for OLM managed operators. It constrains the installation of operators in its namespace to a specified set of target namespaces.

Type

`object`

Required

`metadata`

Specification

Property	Type	Description
<code>apiVersion</code>	<code>string</code>	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
<code>kind</code>	<code>string</code>	Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint

Property	Type	Description
		the client submits requests to. Cannot be updated. In CamelCase. More info: 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	OperatorGroupSpec is the spec for an OperatorGroup resource.
status	object	OperatorGroupStatus is the status for an OperatorGroupResource.

.spec

Description

OperatorGroupSpec is the spec for an OperatorGroup resource.

Type

object

Property	Type	Description
selector	object	Selector selects the OperatorGroup's target namespaces.

Property	Type	Description
<code>serviceAccountName</code>	<code>string</code>	ServiceAccountName is the admin specified service account which will be used to deploy operator(s) in this operator group.
<code>staticProvidedAPIs</code>	<code>boolean</code>	Static tells OLM not to update the OperatorGroup's providedAPIs annotation
<code>targetNamespaces</code>	<code>array</code>	TargetNamespaces is an explicit set of namespaces to target. If it is set, Selector is ignored.

.spec.selector

Description

Selector selects the OperatorGroup's target namespaces.

Type

`object`

Property	Type	Description
<code>matchExpressions</code>	<code>array</code>	matchExpressions is a list of label selector requirements. The requirements are ANDed.
<code>matchLabels</code>	<code>object</code>	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

Property	Type	Description
		"key", the operator is "In", and the values array contains only "value". The requirements are ANDed.

.spec.selector.matchExpressions

Description

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

Type

array

.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.

Property	Type	Description
<code>values</code>	<code>array</code>	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.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.selector.matchExpressions[].values[]`

Type

`string`

`.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.targetNamespaces`

Description

TargetNamespaces is an explicit set of namespaces to target. If it is set, Selector is ignored.

Type

array

.spec.targetNamespaces[]

Type

string

.status

Description

OperatorGroupStatus is the status for an OperatorGroupResource.

Type

object

Required

lastUpdated

Property	Type	Description
conditions	array	Conditions is an array of the OperatorGroup's conditions.
lastUpdated	string	LastUpdated is a timestamp of the last time the OperatorGroup's status was Updated.
namespaces	array	Namespaces is the set of target namespaces for the OperatorGroup.

Property	Type	Description
<code>serviceAccountRef</code>	<code>object</code>	ServiceAccountRef references the service account object specified.

`.status.conditions`

Description

Conditions is an array of the OperatorGroup's conditions.

Type

`array`

`.status.conditions[]`

Description

Condition contains details for one aspect of the current state of this API Resource. --- This struct is intended for direct use as an array at the field path `.status.conditions`. For example, type `FooStatus` struct{ // Represents the observations of a foo's current state. // Known .status.conditions.type are: "Available", "Progressing", and "Degraded" // +patchMergeKey=type // +patchStrategy=merge // +listType=map // +listMapKey=type Conditions []metav1.Condition `json:"conditions,omitempty" patchStrategy:"merge" patchMergeKey:"type" protobuf:"bytes,1,rep,name=conditions"` // other fields }

Type

`object`

Required

`lastTransitionTime` `message` `reason` `status` `type`

Property	Type	Description
<code>lastTransitionTime</code>	<code>string</code>	lastTransitionTime is the last time the condition transitioned from one status to another. This

Property	Type	Description
		should be when the underlying condition changed. If that is not known, then using the time when the API field changed is acceptable.
message	string	message is a human readable message indicating details about the transition. This may be an empty string.
observedGeneration	integer	observedGeneration represents the .metadata.generation that the condition was set based upon. For instance, if .metadata.generation is currently 12, but the .status.conditions[x].observedGeneration is 9, the condition is out of date with respect to the current state of the instance.
reason	string	reason contains a programmatic identifier indicating the reason for the condition's last transition. Producers of specific condition types may define expected values and meanings for this field, and whether the values are considered a guaranteed API. The value should be a CamelCase string. This field may not be empty.
status	string	status of the condition, one of True, False, Unknown.

Property	Type	Description
<code>type</code>	<code>string</code>	type of condition in CamelCase or in foo.example.com/CamelCase. --- Many .condition.type values are consistent across resources like Available, but because arbitrary conditions can be useful (see .node.status.conditions), the ability to deconflict is important. The regex it matches is (dns1123SubdomainFmt/)?(qualifiedNameFmt)

.status.namespaces

Description

Namespaces is the set of target namespaces for the OperatorGroup.

Type

`array`

.status.namespaces[]

Type

`string`

.status.serviceAccountRef

Description

ServiceAccountRef references the service account object specified.

Type

`object`

Property	Type	Description
apiVersion	string	API version of the referent.
fieldPath	string	If referring to a piece of an object instead of an entire object, this string should contain a valid JSON/Go field access statement, such as <code>desiredState.manifest.containers[2]</code>. For example, if the object reference is to a container within a pod, this would take on a value like: <code>"spec.containers{name}"</code> (where "name" refers to the name of the container that triggered the event) or if no container name is specified <code>"spec.containers[2]"</code> (container with index 2 in this pod). This syntax is chosen only to have some well-defined way of referencing a part of an object. TODO: this design is not final and this field is subject to change in the future.
kind	string	Kind of the referent. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds ↗
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
namespace	string	Namespace of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/ ↗

Property	Type	Description
<code>resourceVersion</code>	<code>string</code>	Specific resourceVersion to which this reference is made, if any. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#concurrency-control-and-consistency ↗
<code>uid</code>	<code>string</code>	UID of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#uids ↗

API Endpoints

The following API endpoints are available:

- `/apis/operators.coreos.com/v1/namespaces/{namespace}/operatorgroups`
 - `DELETE` : delete collection of OperatorGroup
 - `GET` : list objects of kind OperatorGroup
 - `POST` : create a new OperatorGroup
- `/apis/operators.coreos.com/v1/namespaces/{namespace}/operatorgroups/{name}`
 - `DELETE` : delete the specified OperatorGroup
 - `GET` : read the specified OperatorGroup
 - `PATCH` : partially update the specified OperatorGroup
 - `PUT` : replace the specified OperatorGroup
- `/apis/operators.coreos.com/v1/namespaces/{namespace}/operatorgroups/{name}/status`
 - `GET` : read status of the specified OperatorGroup

- **PATCH** : partially update status of the specified OperatorGroup
- **PUT** : replace status of the specified OperatorGroup

/apis/operators.coreos.com/v1/namespaces/{namespace}/operatorgroups

HTTP method

DELETE

Description

delete collection of OperatorGroup

HTTP responses

HTTP code	Response body
200 - OK	Status schema
401 - Unauthorized	Empty

HTTP method

GET

Description

list objects of kind OperatorGroup

HTTP responses

HTTP code	Response body
200 - OK	OperatorGroupList schema
401 - Unauthorized	Empty

HTTP method

POST

Description

create a new OperatorGroup

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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
<code>body</code>	<code>OperatorGroup</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>OperatorGroup</code> schema

HTTP code	Response body
201 - Created	<code>OperatorGroup</code> schema
202 - Accepted	<code>OperatorGroup</code> schema
401 - Unauthorized	Empty

/apis/operators.coreos.com/v1/namespaces/{namespace}/operatorgroups/{name}

HTTP method

`DELETE`

Description

delete the specified OperatorGroup

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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	<code>Status</code> schema
202 - Accepted	<code>Status</code> schema
401 - Unauthorized	Empty

HTTP method

GET

Description

read the specified OperatorGroup

HTTP responses

HTTP code	Response body
200 - OK	<code>OperatorGroup</code> schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update the specified OperatorGroup

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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

Parameter	Type	Description
		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	<code>OperatorGroup</code> schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace the specified OperatorGroup

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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

Parameter	Type	Description
		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	OperatorGroup schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	OperatorGroup schema
201 - Created	OperatorGroup schema
401 - Unauthorized	Empty

/apis/operators.coreos.com/v1/namespaces/{namespace}/operatorgroups/{name}/status

HTTP method

GET

Description

read status of the specified OperatorGroup

HTTP responses

HTTP code	Response body
200 - OK	<code>OperatorGroup</code> schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update status of the specified OperatorGroup

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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	<code>OperatorGroup</code> schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace status of the specified OperatorGroup

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> 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 <code>BadRequest</code> 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
<code>body</code>	<code>OperatorGroup</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>OperatorGroup</code> schema
201 - Created	<code>OperatorGroup</code> schema
401 - Unauthorized	Empty

Subscription

[operators.coreos.com/v1alpha1]

Description

Subscription keeps operators up to date by tracking changes to Catalogs.

Type

object

Required

metadata

spec

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

Property	Type	Description
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: 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	SubscriptionSpec defines an Application that can be installed
status	object	

.spec

Description

SubscriptionSpec defines an Application that can be installed

Type

object

Required

name source sourceNamespace

Property	Type	Description
channel	string	

Property	Type	Description
<code>config</code>	<code>object</code>	SubscriptionConfig contains configuration specified for a subscription.
<code>installPlanApproval</code>	<code>string</code>	Approval is the user approval policy for an InstallPlan. It must be one of "Automatic" or "Manual".
<code>name</code>	<code>string</code>	
<code>source</code>	<code>string</code>	
<code>sourceNamespace</code>	<code>string</code>	
<code>startingCSV</code>	<code>string</code>	

.spec.config

Description

SubscriptionConfig contains configuration specified for a subscription.

Type

`object`

Property	Type	Description
<code>env</code>	<code>array</code>	Env is a list of environment variables to set in the container. Cannot be updated.
<code>envFrom</code>	<code>array</code>	EnvFrom is a list of sources to populate environment variables in the container. The keys defined within a

Property	Type	Description
		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. Immutable.
nodeSelector	object	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/ ↗
resources	object	Resources represents compute resources required by this container. Immutable. More info: https://kubernetes.io/docs/concepts/configuration/manage-compute-resources-container/ ↗
selector	object	Selector is the label selector for pods to be configured. Existing ReplicaSets whose pods are selected by this will be the ones affected by this deployment. It must match the pod template's labels.
tolerations	array	Tolerations are the pod's tolerations.
volumeMounts	array	List of VolumeMounts to set in the container.

Property	Type	Description
<code>volumes</code>	<code>array</code>	List of Volumes to set in the podSpec.

`.spec.config.env`

Description

Env is a list of environment variables to set in the container. Cannot be updated.

Type

`array`

`.spec.config.env[]`

Description

EnvVar represents an environment variable present in a Container.

Type

`object`

Required

`name`

Property	Type	Description
<code>name</code>	<code>string</code>	Name of the environment variable. Must be a C_IDENTIFIER.
<code>value</code>	<code>string</code>	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

Property	Type	Description
		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.config.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, <code>metadata.labels['<KEY>']</code> , <code>metadata.annotations['<KEY>']</code> , spec.nodeName, spec.serviceAccountName, status.hostIP, status.podIP, status.podIPs.

Property	Type	Description
<code>resourceFieldRef</code>	<code>object</code>	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.
<code>secretKeyRef</code>	<code>object</code>	Selects a key of a secret in the pod's namespace

`.spec.config.env[].valueFrom.configMapKeyRef`

Description

Selects a key of a ConfigMap.

Type

`object`

Required

`key`

Property	Type	Description
<code>key</code>	<code>string</code>	The key to select.
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names [↗] TODO: Add other useful fields. apiVersion, kind, uid?

Property	Type	Description
<code>optional</code>	<code>boolean</code>	Specify whether the ConfigMap or its key must be defined

`.spec.config.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
<code>apiVersion</code>	<code>string</code>	Version of the schema the FieldPath is written in terms of, defaults to "v1".
<code>fieldPath</code>	<code>string</code>	Path of the field to select in the specified API version.

`.spec.config.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.config.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.

Property	Type	Description
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?
<code>optional</code>	<code>boolean</code>	Specify whether the Secret or its key must be defined

`.spec.config.envFrom`

Description

EnvFrom is a 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. Immutable.

Type

`array`

`.spec.config.envFrom[]`

Description

EnvFromSource represents the source of a set of ConfigMaps

Type

`object`

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

`.spec.config.envFrom[].configMapRef`

Description

The ConfigMap to select from

Type

`object`

Property	Type	Description
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?
<code>optional</code>	<code>boolean</code>	Specify whether the ConfigMap must be defined

`.spec.config.envFrom[].secretRef`

Description

The Secret to select from

Type

object

Property	Type	Description
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?
optional	boolean	Specify whether the Secret must be defined

.spec.config.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.config.resources

Description

Resources represents compute resources required by this container. Immutable. More info:

<https://kubernetes.io/docs/concepts/configuration/manage-compute-resources-container/>

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. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

.spec.config.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.config.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. More info: <https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/>

Type

object

.spec.config.selector

Description

Selector is the label selector for pods to be configured. Existing ReplicaSets whose pods are selected by this will be the ones affected by this deployment. It must match the pod template's labels.

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.config.selector.matchExpressions

Description

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

Type

array

.spec.config.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.config.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.config.selector.matchExpressions[].values[]

Type

string

.spec.config.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.config.tolerations

Description

Tolerations are the pod's tolerations.

Type

array

.spec.config.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,

Property	Type	Description
		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.config.volumeMounts

Description

List of VolumeMounts to set in the container.

Type

array

.spec.config.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 '..'.
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.
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.

Property	Type	Description
<code>subPath</code>	<code>string</code>	Path within the volume from which the container's volume should be mounted. Defaults to "" (volume's root).
<code>subPathExpr</code>	<code>string</code>	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.config.volumes`

Description

List of Volumes to set in the podSpec.

Type

`array`

`.spec.config.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
<code>awsElasticBlockStore</code>	<code>object</code>	AWSElasticBlockStore represents an AWS Disk resource to a kubelet's host machine and then exposed to the pod. More info: https://kubernetes.io/docs/concepts/storage/volumes#awselasticblockstore
<code>azureDisk</code>	<code>object</code>	AzureDisk represents an Azure Data Disk mount on the host and backed up by Azure storage account.
<code>azureFile</code>	<code>object</code>	AzureFile represents an Azure File Service mount on the host and backed up by Azure storage account.
<code>cephfs</code>	<code>object</code>	CephFS represents a Ceph FS mount on the host that shares a pod lifecycle.
<code>cinder</code>	<code>object</code>	Cinder represents a cinder volume attached and mounted on host machines. More info: https://examples.k8s.io/my-cinder-pd/README.md
<code>configMap</code>	<code>object</code>	ConfigMap represents a configMap that should populate the pod's environment.
<code>csi</code>	<code>object</code>	CSI (Container Storage Interface) represents ephemeral storage that is handled by certain external CSI drivers (Beta feature).

Property	Type	Description
downwardAPI	object	DownwardAPI represents downward API about the pod to populate this volume
emptyDir	object	EmptyDir represents a temporary directory that shares lifecycle with the pod. More info: https://kubernetes.io/docs/concepts/storage/emptydir
ephemeral	object	Ephemeral represents a volume that is handled by a storage class. The volume's lifecycle is tied to the pod that defines it: it is created before the pod starts, and deleted when the pod is removed. It is suitable for stateful workloads where the volume is only needed while the pod runs, b) features like restoring from snapshot or capacity tracking. The storage driver is specified through a storage class. The storage driver supports dynamic volume provisioning through PersistentVolumeClaim (see EphemeralVolumeSource for information on the connection between this volume type and PersistentVolumeClaim). Use PersistentVolumeClaim for vendor-specific APIs for volumes that persist for longer than an individual pod. Use CSI for light-weight local ephemeral volumes. CSI driver is meant to be used that way - see the documentation for more information. A pod can use both type of volumes and persistent volumes at the same time. This type is only available when the GenericEphemeralVolume plugin is enabled.
fc	object	FC represents a Fibre Channel resource that is attached to the host machine and then exposed to the pod.

Property	Type	Description
<code>flexVolume</code>	<code>object</code>	FlexVolume represents a generic volume resource that is provisioned/attached using an exec based plugin.
<code>flocker</code>	<code>object</code>	Flocker represents a Flocker volume attached to a pod. This depends on the Flocker control service being running.
<code>gcePersistentDisk</code>	<code>object</code>	GCEPersistentDisk represents a GCE Disk resource that is provisioned on kubelet's host machine and then exposed to the pod. https://kubernetes.io/docs/concepts/storage/volumes/#gce-persistent-disk
<code>gitRepo</code>	<code>object</code>	GitRepo represents a git repository at a particular revision. DEPRECATED: GitRepo is deprecated. To provision a new repo, mount an EmptyDir into an InitContainer that clones the repo, then mount the EmptyDir into the Pod's container.
<code>glusterfs</code>	<code>object</code>	Glusterfs represents a Glusterfs mount on the host that shares a pod's lifetime. More info: https://examples.k8s.io/volumes/glusterfs/
<code>hostPath</code>	<code>object</code>	HostPath represents a pre-existing file or directory on the host that is directly exposed to the container. This is generally used for logging agents or other privileged things that are allowed to see the host's file system. Most containers will NOT need this. More info: https://kubernetes.io/docs/concepts/storage/volumes/#host-path TODO(jonesdl) We need to restrict who can use hostPath and who can/can not mount host directories as read-only.

Property	Type	Description
iscsi	object	ISCSI represents an ISCSI Disk resource that is attached to the host machine and then exposed to the pod. More info: https://examples.k8s.io/volumes/iscsi/README.md
name	string	Volume's name. Must be a DNS_LABEL and unique within the namespace. info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names
nfs	object	NFS represents an NFS mount on the host that shares a pod-readable directory. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes/#nfs
persistentVolumeClaim	object	PersistentVolumeClaimVolumeSource represents a PersistentVolumeClaim in the same namespace. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes/#persistentvolumeclaims
photonPersistentDisk	object	PhotonPersistentDisk represents a PhotonController persistent disk attached and mounted on kubelets host machine
portworxVolume	object	PortworxVolume represents a portworx volume attached and mounted on kubelets host machine
projected	object	Items for all in one resources secrets, configmaps, and persistent volume claims

Property	Type	Description
<code>quobyte</code>	<code>object</code>	Quobyte represents a Quobyte mount on the host th lifetime
<code>rbd</code>	<code>object</code>	RBD represents a Rados Block Device mount on the pod's lifetime. More info: https://examples.k8s.io/volumes/rbd/README.md ↗
<code>scaleIO</code>	<code>object</code>	ScaleIO represents a ScaleIO persistent volume att Kubernetes nodes.
<code>secret</code>	<code>object</code>	Secret represents a secret that should populate this https://kubernetes.io/docs/concepts/storage/volumes
<code>storageos</code>	<code>object</code>	StorageOS represents a StorageOS volume attache Kubernetes nodes.
<code>vsphereVolume</code>	<code>object</code>	VsphereVolume represents a vSphere volume attac kubelets host machine

`.spec.config.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	Filesystem type of the volume that you want to mount. Tip: Ensure filesystem type is supported by the host operating system. Examples: "ext4", "xfs", "ntfs". Implicitly inferred to be "ext4" if unspecified. https://kubernetes.io/docs/concepts/storage/volumes#awselasticfilesystem ✎ TODO: how do we prevent errors in the filesystem from coming from the machine
partition	integer	The partition in the volume that you want to mount. If omitted, the volume will be mounted by volume name. Examples: For volume /dev/sda1, specify the partition as "1". Similarly, the volume partition for /dev/sda1 (or you can leave the property empty).
readOnly	boolean	Specify "true" to force and set the ReadOnly property in VolumeSpec to "true". If omitted, the default is "false". More info: https://kubernetes.io/docs/concepts/storage/volumes#awselasticfilesystem ✎
volumeID	string	Unique ID of the persistent disk resource in AWS (Amazon EBS volume). More info: https://kubernetes.io/docs/concepts/storage/volumes#awselasticfilesystem ✎

.spec.config.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
cachedMode	string	Host Caching mode: None, Read Only, Read Write.
diskName	string	The Name of the data disk in the blob storage
diskURI	string	The URI the data disk in the blob storage
fsType	string	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	Expected values 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
<code>readOnly</code>	<code>boolean</code>	Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.

`.spec.config.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
<code>readOnly</code>	<code>boolean</code>	Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
<code>secretName</code>	<code>string</code>	the name of secret that contains Azure Storage Account Name and Key
<code>shareName</code>	<code>string</code>	Share Name

`.spec.config.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	Required: Monitors is a collection of Ceph monitors More info: https://examples.k8s.io/volumes/cephfs/README.md#how-to-use-it
path	string	Optional: Used as the mounted root, rather than the full Ceph tree, default is /
readOnly	boolean	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	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
<code>secretRef</code>	<code>object</code>	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 ↗
<code>user</code>	<code>string</code>	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.config.volumes[].cephfs.monitors`

Description

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.config.volumes[].cephfs.monitors[]`

Type

`string`

`.spec.config.volumes[].cephfs.secretRef`

Description

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. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?

.spec.config.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	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	Optional: 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 ↗

Property	Type	Description
<code>secretRef</code>	<code>object</code>	Optional: points to a secret object containing parameters used to connect to OpenStack.
<code>volumeID</code>	<code>string</code>	volume id used to identify the volume in cinder. More info: https://examples.k8s.io/mysql-cinder-pd/README.md ↗

`.spec.config.volumes[].cinder.secretRef`

Description

Optional: points to a secret object containing parameters used to connect to OpenStack.

Type

`object`

Property	Type	Description
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?

`.spec.config.volumes[].configMap`

Description

ConfigMap represents a configMap that should populate this volume

Type

`object`

Property	Type	Description
<code>defaultMode</code>	<code>integer</code>	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 <code>fsGroup</code> , and the result can be other mode bits set.
<code>items</code>	<code>array</code>	If unspecified, each key-value pair in the <code>Data</code> field of the referenced <code>ConfigMap</code> 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 <code>ConfigMap</code> , the volume setup will error unless it is marked optional. Paths must be relative and may not contain the <code>'..'</code> path or start with <code>'..'</code> .
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ✎ TODO: Add other useful fields. <code>apiVersion</code> , <code>kind</code> , <code>uid</code> ?
<code>optional</code>	<code>boolean</code>	Specify whether the <code>ConfigMap</code> or its keys must be defined

`.spec.config.volumes[].configMap.items`

Description

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.config.volumes[].configMap.items[]

Description

Maps a string key to a path within a volume.

Type

object

Required

key path

Property	Type	Description
key	string	The key to project.
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
<code>path</code>	<code>string</code>	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.config.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
<code>driver</code>	<code>string</code>	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.
<code>fsType</code>	<code>string</code>	Filesystem type 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.
<code>nodePublishSecretRef</code>	<code>object</code>	NodePublishSecretRef is a reference to the secret object containing sensitive information to pass to the CSI driver to complete the CSI

Property	Type	Description
		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.
<code>readOnly</code>	<code>boolean</code>	Specifies a read-only configuration for the volume. Defaults to false (read/write).
<code>volumeAttributes</code>	<code>object</code>	VolumeAttributes stores driver-specific properties that are passed to the CSI driver. Consult your driver's documentation for supported values.

`.spec.config.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. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?

.spec.config.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.config.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

Property	Type	Description
		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.config.volumes[].downwardAPI.items

Description

Items is a list of downward API volume file

Type

array

.spec.config.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 and namespace are supported.

Property	Type	Description
<code>mode</code>	<code>integer</code>	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.
<code>path</code>	<code>string</code>	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 '..'
<code>resourceFieldRef</code>	<code>object</code>	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

`.spec.config.volumes[].downwardAPI.items[].fieldRef`

Description

Required: Selects a field of the pod: only annotations, labels, name and namespace 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.config.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"

Property	Type	Description
<code>resource</code>	<code>string</code>	Required: resource to select

`.spec.config.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
<code>medium</code>	<code>string</code>	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 ↗
<code>sizeLimit</code>	<code>string</code>	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: http://kubernetes.io/docs/user-guide/volumes#emptydir ↗

`.spec.config.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. This is a beta feature and only available when the `GenericEphemeralVolume` feature gate is enabled.

Type

object

Property	Type	Description
<code>volumeClaimTemplate</code>	object	Will be used to create a stand-alone PVC to provision the volume. The pod in which this <code>EphemeralVolumeSource</code> 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 <code><pod name>-<volume name></code> where <code><volume name></code> is the name from the <code>PodSpec.Volumes</code> 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 <i>not</i> 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

Property	Type	Description
		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.

`.spec.config.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.
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.config.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 modes the volume should have. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#access-modes-1
dataSource	object	This field can be used to specify either: * An existing VolumeSnapshot object

Property	Type	Description
		(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. If the AnyVolumeDataSource feature gate is enabled, this field will always have the same contents as the DataSourceRef field.
dataSourceRef	object	Specifies the object from which to populate the volume with data, if a non-empty volume is desired. This may be any local 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, 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. There are two 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. (Alpha) Using this field requires the AnyVolumeDataSource feature gate to be enabled.

Property	Type	Description
<code>resources</code>	<code>object</code>	Resources represents the minimum resources the volume should have. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#resources ↗
<code>selector</code>	<code>object</code>	A label query over volumes to consider for binding.
<code>storageClassName</code>	<code>string</code>	Name of the StorageClass required by the claim. More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes#class-1 ↗
<code>volumeMode</code>	<code>string</code>	volumeMode defines what type of volume is required by the claim. Value of Filesystem is implied when not included in claim spec.
<code>volumeName</code>	<code>string</code>	VolumeName is the binding reference to the PersistentVolume backing this claim.

`.spec.config.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.config.volumes[].ephemeral.volumeClaimTemplate.spec.accessModes[]

Type

string

.spec.config.volumes[].ephemeral.volumeClaimTemplate.spec.dataSource

Description

This 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. If the AnyVolumeDataSource feature gate is enabled, this field will always have the same contents as the DataSourceRef field.

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.

Property	Type	Description
<code>kind</code>	<code>string</code>	Kind is the type of resource being referenced
<code>name</code>	<code>string</code>	Name is the name of resource being referenced

`.spec.config.volumes[].ephemeral.volumeClaimTemplate.spec.dataSourceRef`

Description

Specifies the object from which to populate the volume with data, if a non-empty volume is desired. This may be any local 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, 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. There are two 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. (Alpha) Using this field requires the AnyVolumeDataSource feature gate to be enabled.

Type

`object`

Required

`kind`

`name`

Property	Type	Description
<code>apiGroup</code>	<code>string</code>	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.
<code>kind</code>	<code>string</code>	Kind is the type of resource being referenced
<code>name</code>	<code>string</code>	Name is the name of resource being referenced

`.spec.config.volumes[].ephemeral.volumeClaimTemplate.spec.resources`

Description

Resources represents the minimum resources the volume should have. More info:
<https://kubernetes.io/docs/concepts/storage/persistent-volumes#resources>

Type

`object`

Property	Type	Description
<code>limits</code>	<code>object</code>	Limits describes the maximum amount of compute resources allowed. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗
<code>requests</code>	<code>object</code>	Requests describes the minimum amount of compute resources required. If Requests is omitted for a container, it

Property	Type	Description
		defaults to Limits if that is explicitly specified, otherwise to an implementation-defined value. More info: https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/ ↗

`.spec.config.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.config.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. More info: <https://kubernetes.io/docs/concepts/configuration/manage-resources-containers/>

Type

object

`.spec.config.volumes[].ephemeral.volumeClaimTemplate.spec.selector`

Description

A label query over volumes to consider for binding.

Type

object

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

`.spec.config.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions`

Description

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

Type

array

`.spec.config.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.config.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.config.volumes[].ephemeral.volumeClaimTemplate.spec.selector.matchExpressions[].values[]

Type

string

`.spec.config.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.config.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
<code>fsType</code>	<code>string</code>	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. TODO: how do we prevent errors in the filesystem from compromising the machine
<code>lun</code>	<code>integer</code>	Optional: FC target lun number

Property	Type	Description
<code>readOnly</code>	<code>boolean</code>	Optional: Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
<code>targetWWNs</code>	<code>array</code>	Optional: FC target worldwide names (WWNs)
<code>wwids</code>	<code>array</code>	Optional: FC volume world wide identifiers (wwids) Either wwids or combination of targetWWNs and lun must be set, but not both simultaneously.

`.spec.config.volumes[].fc.targetWWNs`

Description

Optional: FC target worldwide names (WWNs)

Type

`array`

`.spec.config.volumes[].fc.targetWWNs[]`

Type

`string`

`.spec.config.volumes[].fc.wwids`

Description

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.config.volumes[].fc.wwids[]`

Type

`string`

`.spec.config.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
<code>driver</code>	<code>string</code>	Driver is the name of the driver to use for this volume.
<code>fsType</code>	<code>string</code>	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.
<code>options</code>	<code>object</code>	Optional: Extra command options if any.

Property	Type	Description
<code>readOnly</code>	<code>boolean</code>	Optional: Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
<code>secretRef</code>	<code>object</code>	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.config.volumes[].flexVolume.options`

Description

Optional: Extra command options if any.

Type

`object`

`.spec.config.volumes[].flexVolume.secretRef`

Description

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
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-

Property	Type	Description
		objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?

.spec.config.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
<code>datasetName</code>	string	Name of the dataset stored as metadata -> name on the dataset for Flocker should be considered as deprecated
<code>datasetUUID</code>	string	UUID of the dataset. This is unique identifier of a Flocker dataset

.spec.config.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	Filesystem type of the volume that you want to mount. Tip: Ensure 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#gcepersis ↗ TODO: how do we prevent errors in the filesystem from compromising the machine
partition	integer	The partition in the volume that you want to mount. If omitted, the default is to mount by volume name. Examples: For volume /dev you specify the partition as "1". Similarly, the volume partition for /dev/sda is "0" (or you can leave the property empty). More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗
pdName	string	Unique name of the PD resource in GCE. Used to identify the disk in GCE. More info: https://kubernetes.io/docs/concepts/storage/volumes#gcepersis ↗
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.config.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	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 URL
revision	string	Commit hash for the specified revision.

.spec.config.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	EndpointsName 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
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.config.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> --- TODO(jonesdl) We need to restrict who can use host directory mounts and who can/can not mount host directories as read/write.

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.config.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	whether support iSCSI Discovery CHAP authentication
chapAuthSession	boolean	whether support iSCSI Session CHAP authentication

Property	Type	Description
<code>fsType</code>	<code>string</code>	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#iscsi ⚡ TODO: how do we prevent errors in the filesystem from compromising the machine
<code>initiatorName</code>	<code>string</code>	Custom iSCSI Initiator Name. If initiatorName is specified with iscsiInterface simultaneously, new iSCSI interface : <code>iqn.2001-09.com.redhat:00000000000000000000000000000000</code> will be created for the connection.
<code>iqn</code>	<code>string</code>	Target iSCSI Qualified Name.
<code>iscsiInterface</code>	<code>string</code>	iSCSI Interface Name that uses an iSCSI transport. Defaults to 'default' (tcp).
<code>lun</code>	<code>integer</code>	iSCSI Target Lun number.
<code>portals</code>	<code>array</code>	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).
<code>readOnly</code>	<code>boolean</code>	ReadOnly here will force the ReadOnly setting in VolumeMounts. Defaults to false.

Property	Type	Description
<code>secretRef</code>	<code>object</code>	CHAP Secret for iSCSI target and initiator authentication
<code>targetPortal</code>	<code>string</code>	iSCSI Target Portal. The Portal is either an IP or ip_addr:port if the port is other than default (typically TCF ports 860 and 3260).

`.spec.config.volumes[].iscsi.portals`

Description

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.config.volumes[].iscsi.portals[]`

Type

`string`

`.spec.config.volumes[].iscsi.secretRef`

Description

CHAP Secret for iSCSI target and initiator authentication

Type

`object`

Property	Type	Description
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?

.spec.config.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
<code>path</code>	<code>string</code>	Path that is exported by the NFS server. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs ↗
<code>readOnly</code>	<code>boolean</code>	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 ↗

Property	Type	Description
<code>server</code>	<code>string</code>	Server is the hostname or IP address of the NFS server. More info: https://kubernetes.io/docs/concepts/storage/volumes#nfs

`.spec.config.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
<code>claimName</code>	<code>string</code>	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
<code>readOnly</code>	<code>boolean</code>	Will force the ReadOnly setting in VolumeMounts. Default false.

`.spec.config.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	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	ID that identifies Photon Controller persistent disk

.spec.config.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.

Property	Type	Description
		Ex. "ext4", "xfs". Implicitly inferred to be "ext4" if unspecified.
<code>readOnly</code>	<code>boolean</code>	Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
<code>volumeID</code>	<code>string</code>	VolumeID uniquely identifies a Portworx volume

`.spec.config.volumes[].projected`

Description

Items for all in one resources secrets, configmaps, and downward API

Type

`object`

Property	Type	Description
<code>defaultMode</code>	<code>integer</code>	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.
<code>sources</code>	<code>array</code>	list of volume projections

`.spec.config.volumes[].projected.sources`

Description

list of volume projections

Type

array

`.spec.config.volumes[].projected.sources[]`

Description

Projection that may be projected along with other supported volume types

Type

object

Property	Type	Description
<code>configMap</code>	<code>object</code>	information about the configMap data to project
<code>downwardAPI</code>	<code>object</code>	information about the downwardAPI data to project
<code>secret</code>	<code>object</code>	information about the secret data to project
<code>serviceAccountToken</code>	<code>object</code>	information about the serviceAccountToken data to project

`.spec.config.volumes[].projected.sources[].configMap`

Description

information about the configMap data to project

Type

object

Property	Type	Description
items	array	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. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names [↗] TODO: Add other useful fields. apiVersion, kind, uid?
optional	boolean	Specify whether the ConfigMap or its keys must be defined

.spec.config.volumes[].projected.sources[].configMap.items

Description

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.config.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	The key to project.
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
<code>path</code>	<code>string</code>	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.config.volumes[].projected.sources[].downwardAPI

Description

information about the downwardAPI data to project

Type

`object`

Property	Type	Description
<code>items</code>	<code>array</code>	Items is a list of DownwardAPIVolume file

**.spec.config.volumes[].projected.sources[].downwardAPI.
items**

Description

Items is a list of DownwardAPIVolume file

Type

`array`

**.spec.config.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 and namespace 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 '..'

Property	Type	Description
<code>resourceFieldRef</code>	<code>object</code>	Selects a resource of the container: only resources limits and requests (limits.cpu, limits.memory, requests.cpu and requests.memory) are currently supported.

`.spec.config.volumes[].projected.sources[].downwardAPI.items[].fieldRef`

Description

Required: Selects a field of the pod: only annotations, labels, name and namespace are supported.

Type

`object`

Required

`fieldPath`

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

`.spec.config.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.config.volumes[].projected.sources[].secret

Description

information about the secret data to project

Type

object

Property	Type	Description
items	array	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

Property	Type	Description
		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 '..'.
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ✎ TODO: Add other useful fields. apiVersion, kind, uid?
optional	boolean	Specify whether the Secret or its key must be defined

`.spec.config.volumes[].projected.sources[].secret.items`

Description

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.config.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	The key to project.
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	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.config.volumes[].projected.sources[].serviceAccountToken

Description

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.config.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 serviceaccount user
volume	string	Volume is a string that references an already created Quobyte volume by name.

.spec.config.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	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 [↗] TODO: how do we prevent errors in the filesystem from compromising the machine
image	string	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 [↗]
monitors	array	A collection of Ceph monitors. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it [↗]

Property	Type	Description
<code>pool</code>	<code>string</code>	The rados pool name. Default is rbd. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it
<code>readOnly</code>	<code>boolean</code>	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
<code>secretRef</code>	<code>object</code>	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
<code>user</code>	<code>string</code>	The rados user name. Default is admin. More info: https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it

`.spec.config.volumes[].rbd.monitors`

Description

A collection of Ceph monitors. More info:

<https://examples.k8s.io/volumes/rbd/README.md#how-to-use-it>

Type

`array`

.spec.config.volumes[].rbd.monitors[]

Type

string

.spec.config.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. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?

.spec.config.volumes[].scaleIO

Description

ScaleIO represents a ScaleIO persistent volume attached and mounted on Kubernetes nodes.

Type

object

Required

gateway

secretRef

system

Property	Type	Description
<code>fsType</code>	<code>string</code>	Filesystem type to mount. Must be a filesystem type supported by the host operating system. Ex. "ext4", "xfs", "ntfs". Default is "xfs".
<code>gateway</code>	<code>string</code>	The host address of the ScaleIO API Gateway.
<code>protectionDomain</code>	<code>string</code>	The name of the ScaleIO Protection Domain for the configured storage.
<code>readOnly</code>	<code>boolean</code>	Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
<code>secretRef</code>	<code>object</code>	SecretRef references to the secret for ScaleIO user and other sensitive information. If this is not provided, Login operation will fail.
<code>sslEnabled</code>	<code>boolean</code>	Flag to enable/disable SSL communication with Gateway, default false
<code>storageMode</code>	<code>string</code>	Indicates whether the storage for a volume should be ThickProvisioned or ThinProvisioned. Default is ThinProvisioned.

Property	Type	Description
<code>storagePool</code>	<code>string</code>	The ScaleIO Storage Pool associated with the protection domain.
<code>system</code>	<code>string</code>	The name of the storage system as configured in ScaleIO.
<code>volumeName</code>	<code>string</code>	The name of a volume already created in the ScaleIO system that is associated with this volume source.

`.spec.config.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
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?

`.spec.config.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	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	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 '..'.
optional	boolean	Specify whether the Secret or its keys must be defined
secretName	string	Name of the secret in the pod's namespace to use. More info:

Property	Type	Description
		https://kubernetes.io/docs/concepts/storage/volumes#secret ↗

`.spec.config.volumes[].secret.items`

Description

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.config.volumes[].secret.items[]`

Description

Maps a string key to a path within a volume.

Type

object

Required

key

path

Property	Type	Description
<code>key</code>	<code>string</code>	The key to project.

Property	Type	Description
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	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.config.volumes[].storageos

Description

StorageOS represents a StorageOS volume attached and mounted on Kubernetes nodes.

Type

object

Property	Type	Description
fsType	string	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.

Property	Type	Description
<code>readOnly</code>	<code>boolean</code>	Defaults to false (read/write). ReadOnly here will force the ReadOnly setting in VolumeMounts.
<code>secretRef</code>	<code>object</code>	SecretRef specifies the secret to use for obtaining the StorageOS API credentials. If not specified, default values will be attempted.
<code>volumeName</code>	<code>string</code>	VolumeName is the human-readable name of the StorageOS volume. Volume names are only unique within a namespace.
<code>volumeNamespace</code>	<code>string</code>	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.config.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
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗ TODO: Add other useful fields. apiVersion, kind, uid?

.spec.config.volumes[].vsphereVolume

Description

VsphereVolume represents a vSphere volume attached and mounted on kubelets host machine

Type

`object`

Required

`volumePath`

Property	Type	Description
<code>fsType</code>	<code>string</code>	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.
<code>storagePolicyID</code>	<code>string</code>	Storage Policy Based Management (SPBM) profile ID associated with the StoragePolicyName.

Property	Type	Description
<code>storagePolicyName</code>	<code>string</code>	Storage Policy Based Management (SPBM) profile name.
<code>volumePath</code>	<code>string</code>	Path that identifies vSphere volume vmdk

.status

Type

`object`

Required

`lastUpdated`

Property	Type	Description
<code>catalogHealth</code>	<code>array</code>	CatalogHealth contains the Subscription's view of its relevant CatalogSources' status. It is used to determine SubscriptionStatusConditions related to CatalogSources.
<code>conditions</code>	<code>array</code>	Conditions is a list of the latest available observations about a Subscription's current state.
<code>currentCSV</code>	<code>string</code>	CurrentCSV is the CSV the Subscription is progressing to.

Property	Type	Description
<code>installPlanGeneration</code>	<code>integer</code>	InstallPlanGeneration is the current generation of the installplan
<code>installPlanRef</code>	<code>object</code>	InstallPlanRef is a reference to the latest InstallPlan that contains the Subscription's current CSV.
<code>installedCSV</code>	<code>string</code>	InstalledCSV is the CSV currently installed by the Subscription.
<code>installplan</code>	<code>object</code>	Install is a reference to the latest InstallPlan generated for the Subscription. DEPRECATED: InstallPlanRef
<code>lastUpdated</code>	<code>string</code>	LastUpdated represents the last time that the Subscription status was updated.
<code>reason</code>	<code>string</code>	Reason is the reason the Subscription was transitioned to its current state.
<code>state</code>	<code>string</code>	State represents the current state of the Subscription

.status.catalogHealth

Description

CatalogHealth contains the Subscription's view of its relevant CatalogSources' status. It is used to determine SubscriptionStatusConditions related to CatalogSources.

Type

array

.status.catalogHealth[]

Description

SubscriptionCatalogHealth describes the health of a CatalogSource the Subscription knows about.

Type

object

Required

catalogSourceRef

healthy

lastUpdated

Property	Type	Description
catalogSourceRef	object	CatalogSourceRef is a reference to a CatalogSource.
healthy	boolean	Healthy is true if the CatalogSource is healthy; false otherwise.
lastUpdated	string	LastUpdated represents the last time that the CatalogSourceHealth changed

.status.catalogHealth[].catalogSourceRef

Description

CatalogSourceRef is a reference to a CatalogSource.

Type

object

Property	Type	Description
apiVersion	string	API version of the referent.
fieldPath	string	If referring to a piece of an object instead of an entire object, this string should contain a valid JSON/Go field access statement, such as <code>desiredState.manifest.containers[2]</code>. For example, if the object reference is to a container within a pod, this would take on a value like: <code>"spec.containers{name}"</code> (where "name" refers to the name of the container that triggered the event) or if no container name is specified <code>"spec.containers[2]"</code> (container with index 2 in this pod). This syntax is chosen only to have some well-defined way of referencing a part of an object. TODO: this design is not final and this field is subject to change in the future.
kind	string	Kind of the referent. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds ↗
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

Property	Type	Description
<code>namespace</code>	<code>string</code>	Namespace of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/ ↗
<code>resourceVersion</code>	<code>string</code>	Specific resourceVersion to which this reference is made, if any. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#concurrency-control-and-consistency ↗
<code>uid</code>	<code>string</code>	UID of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#uids ↗

.status.conditions

Description

Conditions is a list of the latest available observations about a Subscription's current state.

Type

`array`

.status.conditions[]

Description

SubscriptionCondition represents the latest available observations of a Subscription's state.

Type

`object`

Required

`status``type`

Property	Type	Description
<code>lastHeartbeatTime</code>	<code>string</code>	LastHeartbeatTime is the last time we got an update on a given condition
<code>lastTransitionTime</code>	<code>string</code>	LastTransitionTime is the last time the condition transit from one status to another
<code>message</code>	<code>string</code>	Message is a human-readable message indicating details about last transition.
<code>reason</code>	<code>string</code>	Reason is a one-word CamelCase reason for the condition's last transition.
<code>status</code>	<code>string</code>	Status is the status of the condition, one of True, False, Unknown.
<code>type</code>	<code>string</code>	Type is the type of Subscription condition.

.status.installPlanRef

Description

InstallPlanRef is a reference to the latest InstallPlan that contains the Subscription's current CSV.

Type

object

Property	Type	Description
apiVersion	string	API version of the referent.
fieldPath	string	If referring to a piece of an object instead of an entire object, this string should contain a valid JSON/Go field access statement, such as <code>desiredState.manifest.containers[2]</code>. For example, if the object reference is to a container within a pod, this would take on a value like: <code>"spec.containers{name}"</code> (where "name" refers to the name of the container that triggered the event) or if no container name is specified <code>"spec.containers[2]"</code> (container with index 2 in this pod). This syntax is chosen only to have some well-defined way of referencing a part of an object. TODO: this design is not final and this field is subject to change in the future.
kind	string	Kind of the referent. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds ↗
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗

Property	Type	Description
namespace	string	Namespace of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/ ↗
resourceVersion	string	Specific resourceVersion to which this reference is made, if any. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#concurrency-control-and-consistency ↗
uid	string	UID of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#uids ↗

.status.installplan

Description

Install is a reference to the latest InstallPlan generated for the Subscription. DEPRECATED: InstallPlanRef

Type

object

Required

apiVersion kind name uuid

Property	Type	Description
apiVersion	string	

Property	Type	Description
kind	string	
name	string	
uuid	string	UID is a type that holds unique ID values, including UUIDs. Because we don't ONLY use UUIDs, this is an alias to string. Being a type captures intent and helps make sure that UUIDs and names do not get conflated.

API Endpoints

The following API endpoints are available:

- `/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/subscriptions`
 - `DELETE` : delete collection of Subscription
 - `GET` : list objects of kind Subscription
 - `POST` : create a new Subscription
- `/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/subscriptions/{name}`
 - `DELETE` : delete the specified Subscription
 - `GET` : read the specified Subscription
 - `PATCH` : partially update the specified Subscription
 - `PUT` : replace the specified Subscription
- `/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/subscriptions/{name}/status`
 - `GET` : read status of the specified Subscription
 - `PATCH` : partially update status of the specified Subscription

- **PUT** : replace status of the specified Subscription

/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/subscriptions

HTTP method

DELETE

Description

delete collection of Subscription

HTTP responses

HTTP code	Response body
200 - OK	Status schema
401 - Unauthorized	Empty

HTTP method

GET

Description

list objects of kind Subscription

HTTP responses

HTTP code	Response body
200 - OK	SubscriptionList schema
401 - Unauthorized	Empty

HTTP method

POST

Description

create a new Subscription

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> 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
<code>fieldValidation</code>	<code>string</code>	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
<code>body</code>	<code>Subscription</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>Subscription</code> schema

HTTP code	Response body
201 - Created	<code>Subscription</code> schema
202 - Accepted	<code>Subscription</code> schema
401 - Unauthorized	Empty

/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/subscriptions/{name}

HTTP method

`DELETE`

Description

delete the specified Subscription

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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	<code>Status</code> schema
202 - Accepted	<code>Status</code> schema
401 - Unauthorized	Empty

HTTP method

GET

Description

read the specified Subscription

HTTP responses

HTTP code	Response body
200 - OK	<code>Subscription</code> schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update the specified Subscription

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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

Parameter	Type	Description
		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	<code>Subscription</code> schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace the specified Subscription

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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

Parameter	Type	Description
		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	Subscription schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	Subscription schema
201 - Created	Subscription schema
401 - Unauthorized	Empty

/apis/operators.coreos.com/v1alpha1/namespaces/{namespace}/subscriptions/{name}/status

HTTP method

GET

Description

read status of the specified Subscription

HTTP responses

HTTP code	Response body
200 - OK	<code>Subscription</code> schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update status of the specified Subscription

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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	<code>Subscription</code> schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace status of the specified Subscription

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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
<code>body</code>	<code>Subscription</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>Subscription</code> schema
201 - Created	<code>Subscription</code> schema
401 - Unauthorized	Empty

Operator

[operators.operators.coreos.com/v1]

Description

Operator represents a cluster operator.

Type

object

Specification

Property	Type	Description
<code>apiVersion</code>	<code>string</code>	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
<code>kind</code>	<code>string</code>	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 ↗
<code>metadata</code>	<code>ObjectMeta</code>	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
<code>spec</code>	<code>object</code>	OperatorSpec defines the desired state of Operator
<code>status</code>	<code>object</code>	OperatorStatus defines the observed state of an Operator and its components

.spec

Description

OperatorSpec defines the desired state of Operator

Type

`object`

.status

Description

OperatorStatus defines the observed state of an Operator and its components

Type

`object`

Property	Type	Description
<code>components</code>	<code>object</code>	Components describes resources that compose the operator.

`.status.components`

Description

Components describes resources that compose the operator.

Type

`object`

Required

`labelSelector`

Property	Type	Description
<code>labelSelector</code>	<code>object</code>	LabelSelector is a label query over a set of resources used to select the operator's components
<code>refs</code>	<code>array</code>	Refs are a set of references to the operator's component resources, selected with LabelSelector.

`.status.components.labelSelector`

Description

LabelSelector is a label query over a set of resources used to select the operator's components

Type

`object`

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

`.status.components.labelSelector.matchExpressions`

Description

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

Type

`array`

`.status.components.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.

.status.components.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

.status.components.labelSelector.matchExpressions[].values[]

Type

string

.status.components.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

.status.components.refs

Description

Refs are a set of references to the operator's component resources, selected with LabelSelector.

Type

array

.status.components.refs[]

Description

RichReference is a reference to a resource, enriched with its status conditions.

Type

object

Property	Type	Description
apiVersion	string	API version of the referent.
conditions	array	Conditions represents the latest state of the component.

Property	Type	Description
<code>fieldPath</code>	<code>string</code>	If referring to a piece of an object instead of an entire object, this string should contain a valid JSON/Go field access statement, such as <code>desiredState.manifest.containers[2]</code>. For example, if the object reference is to a container within a pod, this would take on a value like: <code>"spec.containers{name}"</code> (where "name" refers to the name of the container that triggered the event) or if no container name is specified <code>"spec.containers[2]"</code> (container with index 2 in this pod). This syntax is chosen only to have some well-defined way of referencing a part of an object. TODO: this design is not final and this field is subject to change in the future.
<code>kind</code>	<code>string</code>	Kind of the referent. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds ↗
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
<code>namespace</code>	<code>string</code>	Namespace of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/ ↗
<code>resourceVersion</code>	<code>string</code>	Specific resourceVersion to which this reference is made, if any. More info:

Property	Type	Description
		https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#concurrency-control-and-consistency ↗
<code>uid</code>	<code>string</code>	UID of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#uids ↗

`.status.components.refs[].conditions`

Description

Conditions represents the latest state of the component.

Type

`array`

`.status.components.refs[].conditions[]`

Description

Condition represent the latest available observations of an component's state.

Type

`object`

Required

`status`

`type`

Property	Type	Description
<code>lastTransitionTime</code>	<code>string</code>	Last time the condition transitioned from one status to another.

Property	Type	Description
<code>lastUpdateTime</code>	<code>string</code>	Last time the condition was probed
<code>message</code>	<code>string</code>	A human readable message indicating details about the transition.
<code>reason</code>	<code>string</code>	The reason for the condition's last transition.
<code>status</code>	<code>string</code>	Status of the condition, one of True, False, Unknown.
<code>type</code>	<code>string</code>	Type of condition.

API Endpoints

The following API endpoints are available:

- `/kubernetes/{cluster}/apis/operators.coreos.com/v1/operators`
 - `DELETE` : delete collection of Operator
 - `GET` : list objects of kind Operator
 - `POST` : create a new Operator
- `/kubernetes/{cluster}/apis/operators.coreos.com/v1/operators/{name}`
 - `DELETE` : delete the specified Operator
 - `GET` : read the specified Operator

- **PATCH** : partially update the specified Operator
- **PUT** : replace the specified Operator
- `/kubernetes/{cluster}/apis/operators.coreos.com/v1/operators/{name}/status`
 - **GET** : read status of the specified Operator
 - **PATCH** : partially update status of the specified Operator
 - **PUT** : replace status of the specified Operator

`/kubernetes/{cluster}/apis/operators.coreos.com/v1/operators`

HTTP method

DELETE

Description

delete collection of Operator

HTTP responses

HTTP code	Response body
200 - OK	Status schema
401 - Unauthorized	Empty

HTTP method

GET

Description

list objects of kind Operator

HTTP responses

HTTP code	Response body
200 - OK	OperatorList schema

HTTP code	Response body
401 - Unauthorized	Empty

HTTP method

POST

Description

create a new Operator

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> 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
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> 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 <code>BadRequest</code> 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
<code>body</code>	<code>Operator</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>Operator</code> schema
201 - Created	<code>Operator</code> schema
202 - Accepted	<code>Operator</code> schema
401 - Unauthorized	Empty

/kubernetes/{cluster}/apis/operators.coreos.com/v1/operators/{name}

HTTP method

DELETE

Description

delete the specified Operator

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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	<code>Status</code> schema
202 - Accepted	<code>Status</code> schema
401 - Unauthorized	Empty

HTTP method

`GET`

Description

read the specified Operator

HTTP responses

HTTP code	Response body
200 - OK	<code>Operator</code> schema
401 - Unauthorized	Empty

HTTP method

`PATCH`

Description

partially update the specified Operator

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore:

Parameter	Type	Description
		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	<code>Operator</code> schema
401 - Unauthorized	Empty

HTTP method

PUT

Description

replace the specified Operator

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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
<code>body</code>	<code>Operator</code> schema	<code>application/json</code> formatted

HTTP responses

HTTP code	Response body
200 - OK	<code>Operator</code> schema
201 - Created	<code>Operator</code> schema
401 - Unauthorized	Empty

/kubernetes/{cluster}/apis/operators.coreos.com/v1/operators/{name}/status

HTTP method

GET

Description

read status of the specified Operator

HTTP responses

HTTP code	Response body
200 - OK	<code>operator</code> schema
401 - Unauthorized	Empty

HTTP method

PATCH

Description

partially update status of the specified Operator

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> 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
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> 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	<code>Operator</code> schema
401 - Unauthorized	Empty

HTTP method

`PUT`

Description

replace status of the specified Operator

Query parameters

Parameter	Type	Description
<code>dryRun</code>	<code>string</code>	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
<code>fieldValidation</code>	<code>string</code>	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	Operator schema	application/json formatted

HTTP responses

HTTP code	Response body
200 - OK	Operator schema
201 - Created	Operator schema
401 - Unauthorized	Empty