Etcd APIs

EtcdCluster [operator.etcd.io/v1alpha1]

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描述

EtcdCluster is the Schema for the etcdclusters API.

类型

`object`

规格

属性	类型	描述
`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 ↗

属性	类型	描述
`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`	EtcdClusterSpec defines the desired state of EtcdCluster.
`status`	`object`	EtcdClusterStatus defines the observed state of EtcdCluster.

.spec

描述

EtcdClusterSpec defines the desired state of EtcdCluster.

类型

`object`

必填

`size` `version`

属性	类型	描述
`etcdOptions`	`array`	etcd configuration options are passed as command line arguments to the etcd container, refer to etcd documentation for configuration options applicable for the version of etcd being used.
`imageRegistry`	`string`	ImageRegistry specifies the container registry that hosts the etcd images. If unset, it defaults to the value provided via the controller's --image-registry flag, which itself defaults to "gcr.io/etcd-development/etcd".
`podTemplate`	`object`	PodTemplate is the pod template to use for the etcd cluster.
`size`	`integer`	Size is the expected size of the etcd cluster.
`storageSpec`	`object`	StorageSpec is the name of the StorageSpec to use for the etcd cluster. If not provided, then each POD just uses the temporary storage inside the container.
`tls`	`object`	TLS is the TLS certificate configuration to use for the etcd cluster and etcd operator.
`version`	`string`	Version is the expected version of the etcd container image.

.spec.etcdOptions

描述

etcd configuration options are passed as command line arguments to the etcd container, refer to etcd documentation for configuration options applicable for the version of etcd being used.

类型

`array`

.spec.etcdOptions[]

类型

`string`

.spec.podTemplate

描述

PodTemplate is the pod template to use for the etcd cluster.

类型

`object`

属性	类型	描述
`metadata`	`ObjectMeta`	Metadata is the metadata to add to the pod.

.spec.storageSpec

描述

StorageSpec is the name of the StorageSpec to use for the etcd cluster. If not provided, then each POD just uses the temporary storage inside the container.

类型

`object`

必填

`volumeSizeRequest`

属性	类型	描述
`accessModes`	`string`	
`pvcName`	`string`	
`storageClassName`	`string`	
`volumeSizeLimit`	`integer|string`	
`volumeSizeRequest`	`integer|string`	

.spec.tls

描述

TLS is the TLS certificate configuration to use for the etcd cluster and etcd operator.

类型

`object`

属性	类型	描述
`provider`	`string`	
`providerCfg`	`object`	

.spec.tls.providerCfg

类型

`object`

属性	类型	描述
`autoCfg`	`object`	
`certManagerCfg`	`object`	

.spec.tls.providerCfg.autoCfg

类型

`object`

属性	类型	描述
`altNames`	`object`	AltNames contains the domain names and IP addresses that will be added to the x509 certificate SubAltNames fields. The values will be passed directly to the x509.Certificate object.
`caBundleSecret`	`string`	CABundleSecret is the expected secret name with CABundle present. It's used by each etcd POD to verify TLS communications with its peers or clients. If it isn't provided, the CA included in the secret generated by certificate provider will be used instead if present; otherwise, there is no way to verify TLS communications.
`commonName`	`string`	CommonName is the expected common name X509 certificate subject attribute. Should have a length of 64 characters or fewer to avoid generating invalid CSRs.

属性	类型	描述
`organizations`	`array`	Organization is the expected array of Organization names to be used on the Certificate.
`validityDuration`	`string`	ValidityDuration is the expected duration until which the certificate will be valid, expects in human-readable duration: 100d12h, if empty defaults to 90d

.spec.tls.providerCfg.autoCfg.altNames

描述

AltNames contains the domain names and IP addresses that will be added to the x509 certificate SubAltNames fields. The values will be passed directly to the x509.Certificate object.

类型

`object`

属性	类型	描述
`dnsNames`	`array`	DNSNames is the expected array of DNS subject alternative na defaults to $(POD_NAME).$(ETCD_CLUSTER_NAME).$(POD_NAMESPA
`ipAddresses`	`array`	IPs is the expected array of IP address subject alternative name

.spec.tls.providerCfg.autoCfg.altNames.dnsNames

描述

DNSNames is the expected array of DNS subject alternative names. if empty defaults to $(POD_NAME).$(ETCD_CLUSTER_NAME).$(POD_NAMESPACE).svc.cluster.local

类型

`array`

.spec.tls.providerCfg.autoCfg.altNames.dnsNames[]

类型

`string`

.spec.tls.providerCfg.autoCfg.altNames.ipAddresses

描述

IPs is the expected array of IP address subject alternative names.

类型

`array`

.spec.tls.providerCfg.autoCfg.altNames.ipAddresses[]

类型

`string`

.spec.tls.providerCfg.autoCfg.organizations

描述

Organization is the expected array of Organization names to be used on the Certificate.

类型

`array`

.spec.tls.providerCfg.autoCfg.organizations[]

类型

`string`

.spec.tls.providerCfg.certManagerCfg

类型

`object`

必填

`issuerKind` `issuerName`

属性	类型	描述
`altNames`	`object`	AltNames contains the domain names and IP addresses that will be added to the x509 certificate SubAltNames fields. The values will be passed directly to the x509.Certificate object.
`caBundleSecret`	`string`	CABundleSecret is the expected secret name with CABundle present. It's used by each etcd POD to verify TLS communications with its peers or clients. If it isn't provided, the CA included in the secret generated by certificate provider will be used instead if present; otherwise, there is no way to verify TLS communications.
`commonName`	`string`	CommonName is the expected common name X509 certificate subject attribute. Should have a length of 64 characters or fewer to avoid generating invalid CSRs.

属性	类型	描述
`issuerKind`	`string`	IssuerKind is the expected kind of Issuer, either "ClusterIssuer" or "Issuer"
`issuerName`	`string`	IssuerName is the expected name of Issuer required to issue a certificate
`organizations`	`array`	Organization is the expected array of Organization names to be used on the Certificate.
`validityDuration`	`string`	ValidityDuration is the expected duration until which the certificate will be valid, expects in human-readable duration: 100d12h, if empty defaults to 90d

.spec.tls.providerCfg.certManagerCfg.altNames

描述

AltNames contains the domain names and IP addresses that will be added to the x509 certificate SubAltNames fields. The values will be passed directly to the x509.Certificate object.

类型

`object`

属性	类型	描述
`dnsNames`	`array`	DNSNames is the expected array of DNS subject alternative na defaults to $(POD_NAME).$(ETCD_CLUSTER_NAME).$(POD_NAMESPA
`ipAddresses`	`array`	IPs is the expected array of IP address subject alternative name

.spec.tls.providerCfg.certManagerCfg.altNames.dnsNames

描述

DNSNames is the expected array of DNS subject alternative names. if empty defaults to $(POD_NAME).$(ETCD_CLUSTER_NAME).$(POD_NAMESPACE).svc.cluster.local

类型

`array`

.spec.tls.providerCfg.certManagerCfg.altNames.dnsNames[]

类型

`string`

.spec.tls.providerCfg.certManagerCfg.altNames.ipAddresses

描述

IPs is the expected array of IP address subject alternative names.

类型

`array`

.spec.tls.providerCfg.certManagerCfg.altNames.ipAddresses[]

类型

`string`

.spec.tls.providerCfg.certManagerCfg.organizations

描述

Organization is the expected array of Organization names to be used on the Certificate.

类型

`array`

.spec.tls.providerCfg.certManagerCfg.organizations[]

类型

`string`

.status

描述

EtcdClusterStatus defines the observed state of EtcdCluster.

类型

`object`

API 端点

可用的 API 端点如下：

- `/apis/operator.etcd.io/v1alpha1/namespaces/{namespace}/etcdclusters`
  - `DELETE`: delete collection of EtcdCluster
  - `GET`: list objects of kind EtcdCluster
  - `POST`: create a new EtcdCluster
- `/apis/operator.etcd.io/v1alpha1/namespaces/{namespace}/etcdclusters/{name}`
  - `DELETE`: delete the specified EtcdCluster
  - `GET`: read the specified EtcdCluster
  - `PATCH`: partially update the specified EtcdCluster
  - `PUT`: replace the specified EtcdCluster
- `/apis/operator.etcd.io/v1alpha1/namespaces/{namespace}/etcdclusters/{name}/status`
  - `GET`: read status of the specified EtcdCluster
  - `PATCH`: partially update status of the specified EtcdCluster
  - `PUT`: replace status of the specified EtcdCluster

/apis/operator.etcd.io/v1alpha1/namespaces/{namespace}/etcdclusters

HTTP 方法

`DELETE`

描述

delete collection of EtcdCluster

HTTP 响应

HTTP 状态码	响应体
200 - OK	`Status` schema
401 - Unauthorized	Empty

HTTP 方法

`GET`

描述

list objects of kind EtcdCluster

HTTP 响应

HTTP 状态码	响应体
200 - OK	`EtcdClusterList` schema
401 - Unauthorized	Empty

HTTP 方法

`POST`

描述

create a new EtcdCluster

查询参数

参数	类型	描述
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields.

参数	类型	描述
		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.

请求体参数

参数	类型	描述
`body`	`EtcdCluster` schema	`application/json` formatted

HTTP 响应

HTTP 状态码	响应体
200 - OK	`EtcdCluster` schema
201 - Created	`EtcdCluster` schema
202 - Accepted	`EtcdCluster` schema
401 - Unauthorized	Empty

/apis/operator.etcd.io/v1alpha1/namespaces/{namespace}/etcdclusters/{name}

HTTP 方法

`DELETE`

描述

delete the specified EtcdCluster

查询参数

参数	类型	描述
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

HTTP 响应

HTTP 状态码	响应体
200 - OK	`Status` schema
202 - Accepted	`Status` schema
401 - Unauthorized	Empty

HTTP 方法

`GET`

描述

read the specified EtcdCluster

HTTP 响应

HTTP 状态码	响应体
200 - OK	`EtcdCluster` schema
401 - Unauthorized	Empty

HTTP 方法

`PATCH`

描述

partially update the specified EtcdCluster

查询参数

参数	类型	描述
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP 响应

HTTP 状态码	响应体
200 - OK	`EtcdCluster` schema
401 - Unauthorized	Empty

HTTP 方法

`PUT`

描述

replace the specified EtcdCluster

查询参数

参数	类型	描述
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

请求体参数

参数	类型	描述
`body`	`EtcdCluster` schema	`application/json` formatted

HTTP 响应

HTTP 状态码	响应体
200 - OK	`EtcdCluster` schema

HTTP 状态码	响应体
201 - Created	`EtcdCluster` schema
401 - Unauthorized	Empty

/apis/operator.etcd.io/v1alpha1/namespaces/{namespace}/etcdclusters/{name}/status

HTTP 方法

`GET`

描述

read status of the specified EtcdCluster

HTTP 响应

HTTP 状态码	响应体
200 - OK	`EtcdCluster` schema
401 - Unauthorized	Empty

HTTP 方法

`PATCH`

描述

partially update status of the specified EtcdCluster

查询参数

参数	类型	描述
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

参数	类型	描述
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HTTP 响应

HTTP 状态码	响应体
200 - OK	`EtcdCluster` schema
401 - Unauthorized	Empty

HTTP 方法

`PUT`

描述

replace status of the specified EtcdCluster

查询参数

参数	类型	描述
`dryRun`	`string`	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun

参数	类型	描述
		directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
`fieldValidation`	`string`	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

请求体参数

参数	类型	描述
`body`	`EtcdCluster` schema	`application/json` formatted

HTTP 响应

HTTP 状态码	响应体
200 - OK	`EtcdCluster` schema
201 - Created	`EtcdCluster` schema
401 - Unauthorized	Empty