

# Operator APIs

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

# 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: <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources</a>
<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
		<a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds</a>
metadata	ObjectMeta	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
spec	object	OperatorSpec defines the desired state of Operator
status	object	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.
fieldPath	string	If referring to a piece of an object instead of an entire object, this string should contain a valid JSON/Go field

Property	Type	Description
		<p>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.</p>
<code>kind</code>	<code>string</code>	<p>Kind of the referent. More info: <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds</a></p>
<code>name</code>	<code>string</code>	<p>Name of the referent. More info: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names">https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names</a></p>
<code>namespace</code>	<code>string</code>	<p>Namespace of the referent. More info: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/">https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/</a></p>



Property	Type	Description
<code>resourceVersion</code>	<code>string</code>	Specific resourceVersion to which this reference is made, if any. More info: <a href="https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#concurrency-control-and-consistency">https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#concurrency-control-and-consistency</a> ↗
<code>uid</code>	<code>string</code>	UID of the referent. More info: <a href="https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#uids">https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#uids</a> ↗

## `.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.
<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	<b>Status</b> schema
401 - Unauthorized	Empty

### HTTP method

**GET**

### Description

list objects of kind Operator

### HTTP responses

HTTP code	Response body
200 - OK	<code>OperatorList</code> schema
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
body	Operator schema	application/json formatted

## HTTP responses

HTTP code	Response body
200 - OK	Operator schema
201 - Created	Operator schema
202 - Accepted	Operator 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
dryRun	string	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

## HTTP responses

HTTP code	Response body
200 - OK	<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 <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:

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>	<p><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:</p> <ul style="list-style-type: none"> <li>- 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.</li> <li>- 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+.</li> <li>- 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.</li> </ul>

### 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. This is the default

Parameter	Type	Description
		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, and for each duplicate field that is encountered. The request

Parameter	Type	Description
		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