

# Cluster APIs

[Cluster \[v1\]](#)

# Cluster [v1]

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## /auth/v1/clusters

### `get` list clusters by rbac

#### Parameters

- `Authorization` (*in header*): `string`  
Given Bearer token will use this as authorization for the API
- `labelSelector` (*in query*): `string`  
A selector to restrict the list of returned objects by their labels.
- `fieldSelector` (*in query*): `string`  
A selector to restrict the list of returned objects by their fields.
- `limit` (*in query*): `integer`  
limit the number of returned records.
- `continue` (*in query*): `string`  
continue token for paginated queries.
- `resourceVersion` (*in query*): `string`  
resourceVersion sets a constraint on what resource versions a request may be served from.
- `watch` (*in query*): `boolean`  
watch for changes to the described resources.
- `timeoutSeconds` (*in query*): `integer`

timeoutSeconds for the list/watch call.

## Response

- `200` [ClusterList](#): OK
- `401` : Unauthorized - Invalid or missing authentication credentials

## ClusterList

ClusterList is a list of Cluster resources.

- `apiVersion` : `string`
- `kind` : `string`
- `metadata` : [ListMeta](#)
- `items` : `[]Cluster`

## ListMeta

- `continue` : `string`
- `remainingItemCount` : `integer`
- `resourceVersion` : `string`
- `selfLink` : `string`

## Cluster

Cluster contains information about a cluster in a cluster registry.

- `apiVersion` : `string`  
APIVersion defines the versioned schema of this representation of an object.
- `kind` : `string`  
Kind is a string value representing the REST resource this object represents.

- `metadata` : [ObjectMeta](#) ↗

ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.

- `spec` : [ClusterSpec](#)

Spec is the specification of the cluster.

- `status` : [ClusterStatus](#)

Status is the status of the cluster.

## ClusterSpec

Spec is the specification of the cluster.

- `authInfo` : [ClusterAuthInfo](#)
- `kubernetesApiEndpoints` : [KubernetesAPIEndpoints](#)

## ClusterAuthInfo

- `controller` : [ClusterAuthReference](#)
- `user` : [ClusterAuthReference](#)

## ClusterAuthReference

- `kind` : `string`
- `name` : `string`
- `namespace` : `string`

## KubernetesAPIEndpoints

- `caBundle` : `string`  
CABundle contains the certificate authority information.

- `serverEndpoints` : `[]ServerAddressByClientCIDR`  
ServerEndpoints specifies API server addresses for clients.

## ServerAddressByClientCIDR

- `clientCIDR` : `string`  
CIDR used by clients to match the corresponding server address.
- `serverAddress` : `string`  
Server address suitable for a client in the matching CIDR.

## ClusterStatus

Status is the status of the cluster.

- `conditions` : `[]ClusterCondition`  
Conditions contains the different condition statuses for this cluster.
- `type` : `string`  
Type contains the type of this cluster.
- `version` : `string`  
Version contains the kubernetes version for this cluster.

## ClusterCondition

ClusterCondition contains condition information for a cluster.

- `lastHeartbeatTime` : `string`  
LastHeartbeatTime is the last time this condition was updated.
- `lastTransitionTime` : `string`  
LastTransitionTime is the last time the condition changed from one status to another.
- `message` : `string`  
Message is a human-readable message indicating details about the last status change.
- `reason` : `string`

Reason is a brief reason for the condition's last status change.

- `status` : `string`

Status is one of True, False, Unknown.

- `type` : `string`

Type is the type of the cluster condition.

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- [Project \[v1\]](#)

## API usage

This API does not use `/kubernetes/{cluster}` as a path prefix.

```
GET /auth/v1/clusters
```

Common query parameters:

Parameter	Type	Description
<code>labelSelector</code>	<code>string</code>	Restricts returned clusters by labels.
<code>fieldSelector</code>	<code>string</code>	Restricts returned clusters by fields, such as <code>metadata.name</code> .
<code>limit</code>	<code>integer</code>	Limits the number of returned records.
<code>continue</code>	<code>string</code>	Continue token for paginated queries.
<code>resourceVersion</code>	<code>string</code>	Constrains what resource versions the request may be served from.
<code>watch</code>	<code>boolean</code>	Watches for changes to clusters.
<code>timeoutSeconds</code>	<code>integer</code>	Timeout for list/watch requests.

## Request example

```
curl -H "Authorization: Bearer ${TOKEN}" \
  "${APISERVER}/auth/v1/clusters?fieldSelector=metadata.name=${CLUSTER_NAME}"
```

## Response example

```
{
  "apiVersion": "clusterregistry.k8s.io/v1alpha1",
  "kind": "ClusterList",
  "metadata": {
    "resourceVersion": "12345678",
    "continue": ""
  },
  "items": [
    {
      "metadata": {
        "name": "cluster-a"
      },
      "spec": {
        "kubernetesApiEndpoints": {
          "serverEndpoints": [
            {
              "serverAddress": "https://api.cluster-a.example.com"
            }
          ]
        }
      },
      "status": {
        "type": "Kubernetes",
        "version": "v1.30.0"
      }
    }
  ]
}
```

## Notes

- This API returns clusters filtered by RBAC.
- Some sensitive fields are filtered from the response by the backend.