Cluster APIs

Cluster [v1]

Cluster [v1]

/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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Related APIs

- 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
`labelSelector`	`string`	Restricts returned clusters by labels.
`fieldSelector`	`string`	Restricts returned clusters by fields, such as `metadata.name`.
`limit`	`integer`	Limits the number of returned records.
`continue`	`string`	Continue token for paginated queries.
`resourceVersion`	`string`	Constrains what resource versions the request may be served from.
`watch`	`boolean`	Watches for changes to clusters.
`timeoutSeconds`	`integer`	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.