



Red Hat Advanced Cluster Management for Kubernetes 2.10

APIs

APIs

APIs

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Abstract

View a list of APIs that you can use to create and manage application resources, channels, subscriptions, and to query information.

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CHAPTER 1. APIS

You can access APIs to create and manage application resources, channels, subscriptions, and to query information.

User required access: You can only perform actions that your role is assigned. Learn about access requirements from the [Role-based access control](#) documentation.

You can also access all APIs from the integrated console. From the **local-cluster** view, navigate to **Home > API Explorer** to explore API groups.

For more information, review the API documentation for each of the following resources:

- [Clusters API](#)
- [ClusterSets API \(v1beta2\)](#)
- [ClusterSetBindings API \(v1beta2\)](#)
- [Channels API](#)
- [Subscriptions API](#)
- [PlacementRules API \(deprecated\)](#)
- [Applications API](#)
- [Helm API](#)
- [Policy API](#)
- [Observability API](#)
- [Search query API](#)
- [MultiClusterHub API](#)
- [Placements API \(v1beta1\)](#)
- [PlacementDecisions API \(v1beta1\)](#)
- [DiscoveryConfig API](#)
- [DiscoveredCluster API](#)
- [AddOnDeploymentConfig API \(v1alpha1\)](#)
- [ClusterManagementAddOn API \(v1alpha1\)](#)
- [ManagedClusterAddOn API \(v1alpha1\)](#)
- [ManagedClusterSet API](#)
- [KlusterletConfig API \(v1alpha1\)](#)
- [Policy compliance API \(Technology Preview\)](#)

1.1. CLUSTERS API

1.1.1. Overview

This documentation is for the cluster resource for Red Hat Advanced Cluster Management for Kubernetes. Cluster resource has four possible requests: create, query, delete and update.

ManagedCluster represents the desired state and current status of a managed cluster.

ManagedCluster is a cluster-scoped resource.

1.1.1.1. Version information

Version : 2.10.0

1.1.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.1.1.3. Tags

- cluster.open-cluster-management.io : Create and manage clusters

1.1.2. Paths

1.1.2.1. Query all clusters

GET /cluster.open-cluster-management.io/v1/managedclusters

1.1.2.1.1. Description

Query your clusters for more details.

1.1.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string

1.1.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content

HTTP Code	Description	Schema
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.1.2.1.4. Consumes

- **cluster/yaml**

1.1.2.1.5. Tags

- cluster.open-cluster-management.io

1.1.2.2. Create a cluster

POST /cluster.open-cluster-management.io/v1/managedclusters

1.1.2.2.1. Description

Create a cluster

1.1.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Body	body <i>required</i>	Parameters describing the cluster to be created.	Cluster

1.1.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content

HTTP Code	Description	Schema
500	Internal service error	No Content
503	Service unavailable	No Content

1.1.2.2.4. Consumes

- **cluster/yaml**

1.1.2.2.5. Tags

- cluster.open-cluster-management.io

1.1.2.2.6. Example HTTP request

1.1.2.2.6.1. Request body

```
{
  "apiVersion": "cluster.open-cluster-management.io/v1",
  "kind": "ManagedCluster",
  "metadata": {
    "labels": {
      "vendor": "OpenShift"
    },
    "name": "cluster1"
  },
  "spec": {
    "hubAcceptsClient": true,
    "managedClusterClientConfigs": [
      {
        "caBundle": "test",
        "url": "https://test.com"
      }
    ]
  },
  "status": {}
}
```

1.1.2.3. Query a single cluster

```
GET /cluster.open-cluster-management.io/v1/managedclusters/{cluster_name}
```

1.1.2.3.1. Description

Query a single cluster for more details.

1.1.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	cluster_name <i>required</i>	Name of the cluster that you want to query.	string

1.1.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.1.2.3.4. Tags

- cluster.open-cluster-management.io

1.1.2.4. Delete a cluster

DELETE /cluster.open-cluster-management.io/v1/managedclusters/{cluster_name}

DELETE /hive.openshift.io/v1/{cluster_name}/clusterdeployments/{cluster_name}

1.1.2.4.1. Description

Delete a single cluster

1.1.2.4.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string

Type	Name	Description	Schema
Path	cluster_name <i>required</i>	Name of the cluster that you want to delete.	string

1.1.2.4.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.1.2.4.4. Tags

- cluster.open-cluster-management.io

1.1.3. Definitions

1.1.3.1. Cluster

Name	Description	Schema
apiVersion <i>required</i>	The versioned schema of the ManagedCluster .	string
kind <i>required</i>	String value that represents the REST resource.	string
metadata <i>required</i>	The metadata of the ManagedCluster .	object
spec <i>required</i>	The specification of the ManagedCluster .	spec

spec

Name	Description	Schema
hubAcceptsClient <i>required</i>	Specifies whether the hub can establish a connection with the kubernetes agent on the managed cluster. The default value is false , and can only be changed to true when you have an RBAC rule configured on the hub cluster that allows you to make updates to the virtual subresource of managedclusters/accept .	bool
managedClusterClientConfigs <i>optional</i>	Lists the apiserver addresses of the managed cluster.	managedClusterClientConfigs array
leaseDurationSeconds <i>optional</i>	Specifies the lease update time interval of the kubernetes agents on the managed cluster. By default, the kubernetes agent updates its lease every 60 seconds.	integer (int32)
taints <i>optional</i>	Prevents a managed cluster from being assigned to one or more managed cluster sets during scheduling.	taint array

managedClusterClientConfigs

Name	Description	Schema
URL <i>required</i>		string
CABundle <i>optional</i>	Pattern : <pre>"^([A-Za-z0-9+/]{4})*([A-Za-z0-9+/]{2}=[A-Za-z0-9+/]{3})?=\$"</pre>	string (byte)

taint

Name	Description	Schema
key <i>required</i>	The taint key that is applied to a cluster.	string

Name	Description	Schema
value <i>optional</i>	The taint value that corresponds to the taint key.	string
effect <i>optional</i>	Effect of the taint on placements that do not tolerate the taint. Valid values are NoSelect , PreferNoSelect , and NoSelectIfNew .	string

1.2. CLUSTERSETS API (V1BETA2)

1.2.1. Overview

This documentation is for the ClusterSet resource for Red Hat Advanced Cluster Management for Kubernetes. The ClusterSet resource has four possible requests: create, query, delete, and update. The ManagedClusterSet defines a group of ManagedClusters. You can assign a ManagedCluster to a specific ManagedClusterSet by adding a label with the name **cluster.open-cluster-management.io/clusterSet** on the ManagedCluster that refers to the ManagedClusterSet. You can only add or remove this label on a ManagedCluster when you have an RBAC rule that allows the **create** permissions on a virtual subresource of **managedclustersets/join**. You must have this permission on both the source and the target ManagedClusterSets to update this label.

1.2.1.1. Version information

Version : 2.10.0

1.2.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.2.1.3. Tags

- cluster.open-cluster-management.io : Create and manage ClusterSets

1.2.2. Paths

1.2.2.1. Query all clustersets

GET /cluster.open-cluster-management.io/v1beta2/managedclustersets

1.2.2.1.1. Description

Query your ClusterSets for more details.

1.2.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string

1.2.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.2.2.1.4. Consumes

- **clusterset/yaml**

1.2.2.1.5. Tags

- cluster.open-cluster-management.io

1.2.2.2. Create a clusterset

POST /cluster.open-cluster-management.io/v1beta2/managedclustersets

1.2.2.2.1. Description

Create a Clusterset.

1.2.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Body	body <i>required</i>	Parameters describing the clusterset to be created.	Clusterset

1.2.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.2.2.2.4. Consumes

- **clusterset/yaml**

1.2.2.2.5. Tags

- cluster.open-cluster-management.io

1.2.2.2.6. Example HTTP request

1.2.2.2.6.1. Request body

```
{
  "apiVersion": "cluster.open-cluster-management.io/v1beta2",
  "kind": "ManagedClusterSet",
  "metadata": {
    "name": "clusterset1"
  },
  "spec": {
    "clusterSelector": {
      "selectorType": "ExclusiveClusterSetLabel"
    }
  },
  "status": {}
}
```

1.2.2.3. Query a single clusterset

```
GET /cluster.open-cluster-management.io/v1beta2/managedclustersets/{clusterset_name}
```

1.2.2.3.1. Description

Query a single clusterset for more details.

1.2.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	clusterset_name <i>required</i>	Name of the clusterset that you want to query.	string

1.2.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.2.2.3.4. Tags

- cluster.open-cluster-management.io

1.2.2.4. Delete a clusterset

```
DELETE /cluster.open-cluster-management.io/v1beta2/managedclustersets/{clusterset_name}
```

1.2.2.4.1. Description

Delete a single clusterset.

1.2.2.4.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	clusterset_name <i>required</i>	Name of the clusterset that you want to delete.	string

1.2.2.4.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.2.2.4.4. Tags

- cluster.open-cluster-management.io

1.2.3. Definitions

1.2.3.1. Clusterset

Name	Schema
apiVersion <i>required</i>	string
kind <i>required</i>	string
metadata <i>required</i>	object

1.3. CLUSTERSETBINDINGS API (V1BETA2)

1.3.1. Overview

This documentation is for the ClusterSetBinding resource for Red Hat Advanced Cluster Management for Kubernetes. The ClusterSetBinding resource has four possible requests: create, query, delete, and update. ManagedClusterSetBinding projects a ManagedClusterSet into a certain namespace. You can create a ManagedClusterSetBinding in a namespace and bind it to a ManagedClusterSet if you have an RBAC rule that allows you to **create** on the virtual subresource of **managedclustersets/bind**.

1.3.1.1. Version information

Version : 2.10.0

1.3.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.3.1.3. Tags

- cluster.open-cluster-management.io : Create and manage clustersetbindings

1.3.2. Paths

1.3.2.1. Query all clustersetbindings

GET /cluster.open-cluster-management.io/v1beta2/namespaces/{namespace}/managedclustersetbindings

1.3.2.1.1. Description

Query your clustersetbindings for more details.

1.3.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.3.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.3.2.1.4. Consumes

- **clustersetbinding/yaml**

1.3.2.1.5. Tags

- cluster.open-cluster-management.io

1.3.2.2. Create a clustersetbinding

POST /cluster.open-cluster-management.io/v1beta2/namespaces/{namespace}/managedclustersetbindings

1.3.2.2.1. Description

Create a clustersetbinding.

1.3.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN} ; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default .	string
Body	body <i>required</i>	Parameters describing the clustersetbinding to be created.	Clustersetbinding

1.3.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.3.2.2.4. Consumes

- **clustersetbinding/yaml**

1.3.2.2.5. Tags

- cluster.open-cluster-management.io

1.3.2.2.6. Example HTTP request

1.3.2.2.6.1. Request body

```
{
  "apiVersion" : "cluster.open-cluster-management.io/v1beta2",
  "kind" : "ManagedClusterSetBinding",
  "metadata" : {
    "name" : "clusterset1",
    "namespace" : "ns1"
  },
  "spec": {
    "clusterSet": "clusterset1"
  },
  "status" : {}
}
```

1.3.2.3. Query a single clustersetbinding

```
GET /cluster.open-cluster-
management.io/v1beta2/namespaces/{namespace}/managedclustersetbindings/{clustersetbinding_name}
```

1.3.2.3.1. Description

Query a single clustersetbinding for more details.

1.3.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default .	string
Path	clustersetbinding_name <i>required</i>	Name of the clustersetbinding that you want to query.	string

1.3.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content

HTTP Code	Description	Schema
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.3.2.3.4. Tags

- cluster.open-cluster-management.io

1.3.2.4. Delete a clustersetbinding

DELETE /cluster.open-cluster-management.io/v1beta2/managedclustersetbindings/{clustersetbinding_name}

1.3.2.4.1. Description

Delete a single clustersetbinding.

1.3.2.4.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default .	string
Path	clustersetbinding_name <i>required</i>	Name of the clustersetbinding that you want to delete.	string

1.3.2.4.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content

HTTP Code	Description	Schema
500	Internal service error	No Content
503	Service unavailable	No Content

1.3.2.4.4. Tags

- cluster.open-cluster-management.io

1.3.3. Definitions

1.3.3.1. Clustersetbinding

Name	Description	Schema
apiVersion <i>required</i>	Versioned schema of the ManagedClusterSetBinding .	string
kind <i>required</i>	String value that represents the REST resource.	string
metadata <i>required</i>	Metadata of the ManagedClusterSetBinding .	object
spec <i>required</i>	Specification of the ManagedClusterSetBinding .	spec

spec

Name	Description	Schema
clusterSet <i>required</i>	Name of the ManagedClusterSet to bind. It must match the instance name of the ManagedClusterSetBinding and cannot change after it is created.	string

1.4. CLUSTERVIEW API (V1ALPHA1)

1.4.1. Overview

This documentation is for the **clusterview** resource for Red Hat Advanced Cluster Management for

Kubernetes. The **clusterview** resource provides a CLI command that enables you to view a list of the managed clusters and managed cluster sets that that you can access. The three possible requests are: list, get, and watch.

1.4.1.1. Version information

Version : 2.10.0

1.4.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.4.1.3. Tags

- `clusterview.open-cluster-management.io` : View a list of managed clusters that your ID can access.

1.4.2. Paths

1.4.2.1. Get managed clusters

GET /managedclusters.clusterview.open-cluster-management.io

1.4.2.1.1. Description

View a list of the managed clusters that you can access.

1.4.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string

1.4.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content

HTTP Code	Description	Schema
503	Service unavailable	No Content

1.4.2.1.4. Consumes

- **managedcluster/yaml**

1.4.2.1.5. Tags

- `clusterview.open-cluster-management.io`

1.4.2.2. List managed clusters

LIST /managedclusters.clusterview.open-cluster-management.io

1.4.2.2.1. Description

View a list of the managed clusters that you can access.

1.4.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Body	body <i>optional</i>	Name of the user ID for which you want to list the managed clusters.	string

1.4.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.4.2.2.4. Consumes

- **managedcluster/yaml**

1.4.2.2.5. Tags

- `clusterview.open-cluster-management.io`

1.4.2.2.6. Example HTTP request

1.4.2.2.6.1. Request body

```
{
  "apiVersion" : "clusterview.open-cluster-management.io/v1alpha1",
  "kind" : "ClusterView",
  "metadata" : {
    "name" : "<user_ID>"
  },
  "spec": { },
  "status" : { }
}
```

1.4.2.3. Watch the managed cluster sets

WATCH /managedclusters.clusterview.open-cluster-management.io

1.4.2.3.1. Description

Watch the managed clusters that you can access.

1.4.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	clusterview_name <i>optional</i>	Name of the user ID that you want to watch.	string

1.4.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content

HTTP Code	Description	Schema
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.4.2.4. List the managed cluster sets.

GET /managedclustersets.clusterview.open-cluster-management.io

1.4.2.4.1. Description

List the managed clusters that you can access.

1.4.2.4.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	clusterview_name <i>optional</i>	Name of the user ID that you want to watch.	string

1.4.2.4.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.4.2.5. List the managed cluster sets.

LIST /managedclustersets.clusterview.open-cluster-management.io

1.4.2.5.1. Description

List the managed clusters that you can access.

1.4.2.5.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	clusterview_name <i>optional</i>	Name of the user ID that you want to watch.	string

1.4.2.5.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.4.2.6. Watch the managed cluster sets.

WATCH /managedclustersets.clusterview.open-cluster-management.io

1.4.2.6.1. Description

Watch the managed clusters that you can access.

1.4.2.6.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string

Type	Name	Description	Schema
Path	<code>clusterview_name</code> <i>optional</i>	Name of the user ID that you want to watch.	string

1.4.2.6.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.5. CHANNELS API

1.5.1. Overview

This documentation is for the Channel resource for Red Hat Advanced Cluster Management for Kubernetes. The Channel resource has four possible requests: create, query, delete and update.

1.5.1.1. Version information

Version : 2.10.0

1.5.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.5.1.3. Tags

- `channels.apps.open-cluster-management.io` : Create and manage deployables

1.5.2. Paths

1.5.2.1. Create a channel

POST /apps.open-cluster-management.io/v1/namespaces/{namespace}/channels

1.5.2.1.1. Description

Create a channel.

1.5.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN} ; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string
Body	body <i>required</i>	Parameters describing the deployable to be created.	Channel

1.5.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.5.2.1.4. Consumes

- **application/yaml**

1.5.2.1.5. Tags

- channels.apps.open-cluster-management.io

1.5.2.1.6. Example HTTP request

1.5.2.1.6.1. Request body

```
{
  "apiVersion": "apps.open-cluster-management.io/v1",
  "kind": "Channel",
  "metadata": {
    "name": "sample-channel",
```

```

    "namespace": "default"
  },
  "spec": {
    "configMapRef": {
      "kind": "configmap",
      "name": "bookinfo-resource-filter-configmap"
    },
    "pathname": "https://charts.helm.sh/stable",
    "type": "HelmRepo"
  }
}

```

1.5.2.2. Query all channels for the target namespace

```
GET /apps.open-cluster-management.io/v1/namespaces/{namespace}/channels
```

1.5.2.2.1. Description

Query your channels for more details.

1.5.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.5.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.5.2.2.4. Consumes

- **application/yaml**

1.5.2.2.5. Tags

- channels.apps.open-cluster-management.io

1.5.2.3. Query a single channels of a namespace

```
GET /apps.open-cluster-management.io/v1/namespaces/{namespace}/channels/{channel_name}
```

1.5.2.3.1. Description

Query a single channels for more details.

1.5.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	channel_name <i>required</i>	Name of the deployable that you wan to query.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.5.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.5.2.3.4. Tags

- channels.apps.open-cluster-management.io

1.5.2.4. Delete a Channel

```
DELETE /apps.open-cluster-management.io/v1/namespaces/{namespace}/channels/{channel_name}
```

1.5.2.4.1. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	channel_name <i>required</i>	Name of the Channel that you want to delete.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.5.2.4.2. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.5.2.4.3. Tags

- `channels.apps.open-cluster-management.io`

1.5.3. Definitions

1.5.3.1. Channel

Name	Schema
apiVersion <i>required</i>	string
kind <i>required</i>	string
metadata <i>required</i>	object

Name	Schema
spec <i>required</i>	spec

spec

Name	Description	Schema
configMapRef <i>optional</i>	ObjectReference contains enough information to let you inspect or modify the referred object.	configMapRef
gates <i>optional</i>	ChannelGate defines criteria for promote to channel	gates
pathname <i>required</i>		string
secretRef <i>optional</i>	ObjectReference contains enough information to let you inspect or modify the referred object.	secretRef
sourceNamespaces <i>optional</i>		enum (Namespace, HelmRepo, ObjectBucket, Git, namespace, helmrepo, objectbucket, github) array

configMapRef

Name	Description	Schema
apiVersion <i>optional</i>	API version of the referent.	string
fieldPath <i>optional</i>	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.	string

Name	Description	Schema
kind <i>optional</i>	Kind of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/kubernetes-objects/	name <i>optional</i>
Name of the referent. More info: Names	string	namespace <i>optional</i>
Namespace of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/	string	resourceVersion <i>optional</i>
Specific resourceVersion to which this reference is made, if any. More info: https://git.k8s.io/community/contributors/devel/api-conventions.md#concurrency-control-and-consistency	string	uid <i>optional</i>

gates

Name	Description	Schema
annotations <i>optional</i>	typical annotations of k8s	annotations
labelSelector <i>optional</i>	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.	labelSelector
name <i>optional</i>		string

annotations

Name	Schema
key <i>optional</i>	string
value <i>optional</i>	string

labelSelector

Name	Description	Schema
matchExpressions <i>optional</i>	matchExpressions is a list of label selector requirements. The requirements are ANDed.	matchExpressions array
matchLabels <i>optional</i>	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.	string, string map

matchExpressions

Name	Description	Schema
key <i>required</i>	key is the label key that the selector applies to.	string
operator <i>required</i>	operator represents a key's relationship to a set of values. Valid operators are In, NotIn, Exists and DoesNotExist.	string
values <i>optional</i>	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.	string array

secretRef

Name	Description	Schema
apiVersion <i>optional</i>	API version of the referent.	string

Name	Description	Schema
fieldPath <i>optional</i>	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.	string
kind <i>optional</i>	Kind of the referent. More info: https://git.k8s.io/community/contributors/devel/api-conventions.md#types-kinds	string
name <i>optional</i>	Name of the referent. More info: Names	string
namespace <i>optional</i>	Namespace of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/	string
resourceVersion <i>optional</i>	Specific resourceVersion to which this reference is made, if any. More info: https://git.k8s.io/community/contributors/devel/api-conventions.md#concurrency-control-and-consistency	string
uid <i>optional</i>	UID of the referent. More info: UIDs	string

1.6. SUBSCRIPTIONS API

1.6.1. Overview

This documentation is for the Subscription resource for Red Hat Advanced Cluster Management for Kubernetes. The Subscription resource has four possible requests: create, query, delete and update.

Deprecated: PlacementRule

1.6.1.1. Version information

Version : 2.10.0

1.6.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.6.1.3. Tags

- `subscriptions.apps.open-cluster-management.io` : Create and manage subscriptions

1.6.2. Paths

1.6.2.1. Create a subscription

POST `/apps.open-cluster-management.io/v1/namespaces/{namespace}/subscriptions`

1.6.2.1.1. Description

Create a subscription.

1.6.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string
Body	body <i>required</i>	Parameters describing the subscription to be created.	Subscription

1.6.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.6.2.1.4. Consumes

- `subscription/yaml`

1.6.2.1.5. Tags

- subscriptions.apps.open-cluster-management.io

1.6.2.1.6. Example HTTP request

1.6.2.1.6.1. Request body

```
{
  "apiVersion": "apps.open-cluster-management.io/v1",
  "kind": "Subscription",
  "metadata": {
    "name": "sample_subscription",
    "namespace": "default",
    "labels": {
      "app": "sample_subscription-app"
    },
    "annotations": {
      "apps.open-cluster-management.io/git-path": "apps/sample/",
      "apps.open-cluster-management.io/git-branch": "sample_branch"
    }
  },
  "spec": {
    "channel": "channel_namespace/sample_channel",
    "packageOverrides": [ {
      "packageName": "my-sample-application",
      "packageAlias": "the-sample-app",
      "packageOverrides": [ {
        "path": "spec",
        "value": {
          "persistence": {
            "enabled": false,
            "useDynamicProvisioning": false
          },
          "license": "accept",
          "tls": {
            "hostname": "my-mcm-cluster.icp"
          },
          "sso": {
            "registrationImage": {
              "pullSecret": "hub-repo-docker-secret"
            }
          }
        }
      }
    ]
  },
  "placement": {
    "placementRef": {
      "kind": "PlacementRule",
      "name": "demo-clusters"
    }
  }
}
```

1.6.2.2. Query all subscriptions

GET /apps.open-cluster-management.io/v1/namespaces/{namespace}/subscriptions

1.6.2.2.1. Description

Query your subscriptions for more details.

1.6.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.6.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.6.2.2.4. Consumes

- **subscription/yaml**

1.6.2.2.5. Tags

- subscriptions.apps.open-cluster-management.io

1.6.2.3. Query a single subscription

GET /apps.open-cluster-management.io/v1/namespaces/{namespace}/subscriptions/{subscription_name}

1.6.2.3.1. Description

Query a single subscription for more details.

1.6.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string
Path	subscription_name <i>required</i>	Name of the subscription that you wan to query.	string

1.6.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.6.2.3.4. Tags

- subscriptions.apps.open-cluster-management.io

1.6.2.4. Delete a subscription

DELETE /apps.open-cluster-management.io/v1/namespaces/{namespace}/subscriptions/{subscription_name}

1.6.2.4.1. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

Type	Name	Description	Schema
Path	subscription_name <i>required</i>	Name of the subscription that you want to delete.	string

1.6.2.4.2. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.6.2.4.3. Tags

- `subscriptions.apps.open-cluster-management.io`

1.6.3. Definitions

1.6.3.1. Subscription

Name	Schema
apiVersion <i>required</i>	string
kind <i>required</i>	string
metadata <i>required</i>	metadata
spec <i>required</i>	spec

Name	Schema
status <i>optional</i>	status

metadata

Name	Schema
annotations <i>optional</i>	object
labels <i>optional</i>	object
name <i>optional</i>	string
namespace <i>optional</i>	string

spec

Name	Schema
channel <i>required</i>	string
name <i>optional</i>	string
overrides <i>optional</i>	overrides array
packageFilter <i>optional</i>	packageFilter
packageOverrides <i>optional</i>	packageOverrides array
placement <i>optional</i>	placement
timewindow <i>optional</i>	timewindow

overrides

Name	Schema
clusterName <i>required</i>	string
clusterOverrides <i>required</i>	object array

packageFilter

Name	Description	Schema
annotations <i>optional</i>		string, string map
filterRef <i>optional</i>		filterRef
labelSelector <i>optional</i>		labelSelector
version <i>optional</i>	Pattern : "()(\\.[0-9])(\\.) (\\.[0-9])?(\\.[xX])"\$	string

filterRef

Name	Schema
name <i>optional</i>	string

labelSelector

Name	Schema
matchExpressions <i>optional</i>	matchExpressions array
matchLabels <i>optional</i>	string, string map

matchExpressions

Name	Schema
key <i>required</i>	string
operator <i>required</i>	string
values <i>optional</i>	string array

packageOverrides

Name	Schema
packageAlias <i>optional</i>	string
packageName <i>required</i>	string
packageOverrides <i>optional</i>	object array

placement

Name	Schema
clusterSelector <i>optional</i>	clusterSelector
clusters <i>optional</i>	clusters array
local <i>optional</i>	boolean
placementRef <i>optional</i>	placementRef

clusterSelector

Name	Schema
matchExpressions <i>optional</i>	matchExpressions array
matchLabels <i>optional</i>	string, string map

matchExpressions

Name	Schema
key <i>required</i>	string
operator <i>required</i>	string
values <i>optional</i>	string array

clusters

Name	Schema
name <i>required</i>	string

placementRef

Name	Schema
apiVersion <i>optional</i>	string
fieldPath <i>optional</i>	string
kind <i>optional</i>	string
name <i>optional</i>	string
namespace <i>optional</i>	string

Name	Schema
resourceVersion <i>optional</i>	string
uid <i>optional</i>	string

timewindow

Name	Schema
daysofweek <i>optional</i>	string array
hours <i>optional</i>	hours array
location <i>optional</i>	string
windowType <i>optional</i>	enum (active, blocked, Active, Blocked)

hours

Name	Schema
end <i>optional</i>	string
start <i>optional</i>	string

status

Name	Schema
lastUpdateTime <i>optional</i>	string (date-time)
message <i>optional</i>	string
phase <i>optional</i>	string

Name	Schema
reason <i>optional</i>	string
statuses <i>optional</i>	object

1.7. PLACEMENTRULES API (DEPRECATED)

1.7.1. Overview

This documentation is for the PlacementRule resource for Red Hat Advanced Cluster Management for Kubernetes. The PlacementRule resource has four possible requests: create, query, delete and update.

1.7.1.1. Version information

Version : 2.10.0

1.7.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.7.1.3. Tags

- placementrules.apps.open-cluster-management.io : Create and manage placement rules

1.7.2. Paths

1.7.2.1. Create a placement rule

POST /apps.open-cluster-management.io/v1/namespaces/{namespace}/placementrules

1.7.2.1.1. Description

Create a placement rule.

1.7.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

Type	Name	Description	Schema
Body	body <i>required</i>	Parameters describing the placement rule to be created.	PlacementRule

1.7.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.7.2.1.4. Consumes

- **application/yaml**

1.7.2.1.5. Tags

- `placementrules.apps.open-cluster-management.io`

1.7.2.1.6. Example HTTP request

1.7.2.1.6.1. Request body

```
{
  "apiVersion": "apps.open-cluster-management.io/v1",
  "kind": "PlacementRule",
  "metadata": {
    "name": "towhichcluster",
    "namespace": "ns-sub-1"
  },
  "spec": {
    "clusterConditions": [ {
      "type": "ManagedClusterConditionAvailable",
      "status": "True"
    } ],
    "clusterSelector": { }
  }
}
```

1.7.2.2. Query all placement rules

GET /apps.open-cluster-management.io/v1/namespaces/{namespace}/placementrules

1.7.2.2.1. Description

Query your placement rules for more details.

1.7.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.7.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.7.2.2.4. Consumes

- **application/yaml**

1.7.2.2.5. Tags

- placementrules.apps.open-cluster-management.io

1.7.2.3. Query a single placementrule

GET /apps.open-cluster-management.io/v1/namespaces/{namespace}/placementrules/{placementrule_name}

1.7.2.3.1. Description

Query a single placement rule for more details.

1.7.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string
Path	placementrule _name <i>required</i>	Name of the placementrule that you want to query.	string

1.7.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.7.2.3.4. Tags

- placementrules.apps.open-cluster-management.io

1.7.2.4. Delete a placementrule

```
DELETE /apps.open-cluster-
management.io/v1/namespaces/{namespace}/placementrules/{placementrule_name}
```

1.7.2.4.1. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

Type	Name	Description	Schema
Path	placementrule_name <i>required</i>	Name of the placementrule that you want to delete.	string

1.7.2.4.2. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.7.2.4.3. Tags

- `placementrules.apps.open-cluster-management.io`

1.7.3. Definitions

1.7.3.1. Placementrule

Name	Schema
apiVersion <i>required</i>	string
kind <i>required</i>	string
metadata <i>required</i>	object
spec <i>required</i>	spec

spec

Name	Schema
clusterConditions <i>optional</i>	clusterConditions array
clusterReplicas <i>optional</i>	integer
clusterSelector <i>optional</i>	clusterSelector
clusters <i>optional</i>	clusters array
policies <i>optional</i>	policies array
resourceHint <i>optional</i>	resourceHint
schedulerName <i>optional</i>	string

clusterConditions

Name	Schema
status <i>optional</i>	string
type <i>optional</i>	string

clusterSelector

Name	Schema
matchExpressions <i>optional</i>	matchExpressions array
matchLabels <i>optional</i>	string, string map

matchExpressions

Name	Schema
key <i>optional</i>	string
operator <i>optional</i>	string
values <i>optional</i>	string array

clusters

Name	Schema
name <i>optional</i>	string

policies

Name	Schema
apiVersion <i>optional</i>	string
fieldPath <i>optional</i>	string
kind <i>optional</i>	string
name <i>optional</i>	string
namespace <i>optional</i>	string
resourceVersion <i>optional</i>	string
uid <i>optional</i>	string

resourceHint

Name	Schema
order <i>optional</i>	string
type <i>optional</i>	string

1.8. APPLICATIONS API

1.8.1. Overview

This documentation is for the Application resource for Red Hat Advanced Cluster Management for Kubernetes. Application resource has four possible requests: create, query, delete and update.

1.8.1.1. Version information

Version : 2.10.0

1.8.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.8.1.3. Tags

- applications.app.k8s.io : Create and manage applications

1.8.2. Paths

1.8.2.1. Create a application

POST /app.k8s.io/v1beta1/namespaces/{namespace}/applications

1.8.2.1.1. Description

Create a application.

1.8.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

Type	Name	Description	Schema
Body	body <i>required</i>	Parameters describing the application to be created.	Application

1.8.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.8.2.1.4. Consumes

- **application/yaml**

1.8.2.1.5. Tags

- applications.app.k8s.io

1.8.2.1.6. Example HTTP request

1.8.2.1.6.1. Request body

```
{
  "apiVersion": "app.k8s.io/v1beta1",
  "kind": "Application",
  "metadata": {
    "labels": {
      "app": "nginx-app-details"
    },
    "name": "nginx-app-3",
    "namespace": "ns-sub-1"
  },
  "spec": {
    "componentKinds": [ {
      "group": "apps.open-cluster-management.io",
      "kind": "Subscription"
    } ]
  },
  "selector": {
    "matchLabels": {
```

```

    "app" : "nginx-app-details"
  }
},
"status" : {}
}

```

1.8.2.2. Query all applications

```
GET /app.k8s.io/v1beta1/namespaces/{namespace}/applications
```

1.8.2.2.1. Description

Query your applications for more details.

1.8.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.8.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.8.2.2.4. Consumes

- **application/yaml**

1.8.2.2.5. Tags

- applications.app.k8s.io

1.8.2.3. Query a single application

```
GET /app.k8s.io/v1beta1/namespaces/{namespace}/applications/{application_name}
```

1.8.2.3.1. Description

Query a single application for more details.

1.8.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	application_name <i>required</i>	Name of the application that you wan to query.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.8.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.8.2.3.4. Tags

- applications.app.k8s.io

1.8.2.4. Delete a application

```
DELETE /app.k8s.io/v1beta1/namespaces/{namespace}/applications/{application_name}
```

1.8.2.4.1. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	application_name <i>required</i>	Name of the application that you want to delete.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.8.2.4.2. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.8.2.4.3. Tags

- applications.app.k8s.io

1.8.3. Definitions

1.8.3.1. Application

Name	Schema
apiVersion <i>required</i>	string
kind <i>required</i>	string
metadata <i>required</i>	object

Name	Schema
spec <i>required</i>	spec

spec

Name	Schema
assemblyPhase <i>optional</i>	string
componentKinds <i>optional</i>	object array
descriptor <i>optional</i>	descriptor
info <i>optional</i>	info array
selector <i>optional</i>	object

descriptor

Name	Schema
description <i>optional</i>	string
icons <i>optional</i>	icons array
keywords <i>optional</i>	string array
links <i>optional</i>	links array
maintainers <i>optional</i>	maintainers array
notes <i>optional</i>	string

Name	Schema
owners <i>optional</i>	owners array
type <i>optional</i>	string
version <i>optional</i>	string

icons

Name	Schema
size <i>optional</i>	string
src <i>required</i>	string
type <i>optional</i>	string

links

Name	Schema
description <i>optional</i>	string
url <i>optional</i>	string

maintainers

Name	Schema
email <i>optional</i>	string
name <i>optional</i>	string

Name	Schema
url <i>optional</i>	string

owners

Name	Schema
email <i>optional</i>	string
name <i>optional</i>	string
url <i>optional</i>	string

info

Name	Schema
name <i>optional</i>	string
type <i>optional</i>	string
value <i>optional</i>	string
valueFrom <i>optional</i>	valueFrom

valueFrom

Name	Schema
configMapKeyRef <i>optional</i>	configMapKeyRef
ingressRef <i>optional</i>	ingressRef
secretKeyRef <i>optional</i>	secretKeyRef

Name	Schema
serviceRef <i>optional</i>	serviceRef
type <i>optional</i>	string

configMapKeyRef

Name	Schema
apiVersion <i>optional</i>	string
fieldPath <i>optional</i>	string
key <i>optional</i>	string
kind <i>optional</i>	string
name <i>optional</i>	string
namespace <i>optional</i>	string
resourceVersion <i>optional</i>	string
uid <i>optional</i>	string

ingressRef

Name	Schema
apiVersion <i>optional</i>	string
fieldPath <i>optional</i>	string

Name	Schema
host <i>optional</i>	string
kind <i>optional</i>	string
name <i>optional</i>	string
namespace <i>optional</i>	string
path <i>optional</i>	string
resourceVersion <i>optional</i>	string
uid <i>optional</i>	string

secretKeyRef

Name	Schema
apiVersion <i>optional</i>	string
fieldPath <i>optional</i>	string
key <i>optional</i>	string
kind <i>optional</i>	string
name <i>optional</i>	string
namespace <i>optional</i>	string
resourceVersion <i>optional</i>	string

Name	Schema
uid <i>optional</i>	string

serviceRef

Name	Schema
apiVersion <i>optional</i>	string
fieldPath <i>optional</i>	string
kind <i>optional</i>	string
name <i>optional</i>	string
namespace <i>optional</i>	string
path <i>optional</i>	string
port <i>optional</i>	integer (int32)
resourceVersion <i>optional</i>	string
uid <i>optional</i>	string

1.9. HELM API

1.9.1. Overview

This documentation is for the HelmRelease resource for Red Hat Advanced Cluster Management for Kubernetes. The HelmRelease resource has four possible requests: create, query, delete and update.

1.9.1.1. Version information

Version : 2.10.0

1.9.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.9.1.3. Tags

- helmreleases.apps.open-cluster-management.io : Create and manage helmreleases

1.9.2. Paths

1.9.2.1. Create a helmrelease

POST /apps.open-cluster-management.io/v1/namespaces/{namespace}/helmreleases

1.9.2.1.1. Description

Create a helmrelease.

1.9.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string
Body	body <i>required</i>	Parameters describing the helmrelease to be created.	HelmRelease

1.9.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.9.2.1.4. Consumes

- **application/yaml**

1.9.2.1.5. Tags

- helmreleases.apps.open-cluster-management.io

1.9.2.1.6. Example HTTP request

1.9.2.1.6.1. Request body

```
{
  "apiVersion": "apps.open-cluster-management.io/v1",
  "kind": "HelmRelease",
  "metadata": {
    "name": "nginx-ingress",
    "namespace": "default"
  },
  "repo": {
    "chartName": "nginx-ingress",
    "source": {
      "helmRepo": {
        "urls": [ "https://kubernetes-charts.storage.googleapis.com/nginx-ingress-1.26.0.tgz" ]
      },
      "type": "helmrepo"
    },
    "version": "1.26.0"
  },
  "spec": {
    "defaultBackend": {
      "replicaCount": 3
    }
  }
}
```

1.9.2.2. Query all helmreleases

```
GET /apps.open-cluster-management.io/v1/namespaces/{namespace}/helmreleases
```

1.9.2.2.1. Description

Query your helmreleases for more details.

1.9.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.9.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.9.2.2.4. Consumes

- **application/yaml**

1.9.2.2.5. Tags

- helmreleases.apps.open-cluster-management.io

1.9.2.3. Query a single helmrelease

```
GET /apps.open-cluster-management.io/v1/namespaces/{namespace}/helmreleases/{helmrelease_name}
```

1.9.2.3.1. Description

Query a single helmrelease for more details.

1.9.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	helmrelease_name <i>required</i>	Name of the helmrelease that you want to query.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.9.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.9.2.3.4. Tags

- `helmreleases.apps.open-cluster-management.io`

1.9.2.4. Delete a helmrelease

DELETE `/apps.open-cluster-management.io/v1/namespaces/{namespace}/helmreleases/{helmrelease_name}`

1.9.2.4.1. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	helmrelease_name <i>required</i>	Name of the helmrelease that you want to delete.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.9.2.4.2. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content

HTTP Code	Description	Schema
500	Internal service error	No Content
503	Service unavailable	No Content

1.9.2.4.3. Tags

- helmreleases.apps.open-cluster-management.io

1.9.3. Definitions

1.9.3.1. HelmRelease

Name	Schema
apiVersion <i>required</i>	string
kind <i>required</i>	string
metadata <i>required</i>	object
repo <i>required</i>	repo
spec <i>required</i>	object
status <i>required</i>	status

repo

Name	Schema
chartName <i>optional</i>	string
configMapRef <i>optional</i>	configMapRef

Name	Schema
secretRef <i>optional</i>	secretRef
source <i>optional</i>	source
version <i>optional</i>	string

configMapRef

Name	Schema
apiVersion <i>optional</i>	string
fieldPath <i>optional</i>	string
kind <i>optional</i>	string
name <i>optional</i>	string
namespace <i>optional</i>	string
resourceVersion <i>optional</i>	string
uid <i>optional</i>	string

secretRef

Name	Schema
apiVersion <i>optional</i>	string
fieldPath <i>optional</i>	string

Name	Schema
kind <i>optional</i>	string
name <i>optional</i>	string
namespace <i>optional</i>	string
resourceVersion <i>optional</i>	string
uid <i>optional</i>	string

source

Name	Schema
github <i>optional</i>	github
helmRepo <i>optional</i>	helmRepo
type <i>optional</i>	string

github

Name	Schema
branch <i>optional</i>	string
chartPath <i>optional</i>	string
urls <i>optional</i>	string array

helmRepo

Name	Schema
urls <i>optional</i>	string array

status

Name	Schema
conditions <i>required</i>	conditions array
deployedRelease <i>optional</i>	deployedRelease

conditions

Name	Schema
lastTransitionTime <i>optional</i>	string (date-time)
message <i>optional</i>	string
reason <i>optional</i>	string
status <i>required</i>	string
type <i>required</i>	string

deployedRelease

Name	Schema
manifest <i>optional</i>	string
name <i>optional</i>	string

1.10. POLICY API

1.10.1. Overview

This documentation is for the Policy resource for Red Hat Advanced Cluster Management for Kubernetes. The Policy resource has four possible requests: create, query, delete and update.

1.10.1.1. Version information

Version : 2.10.0

1.10.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.10.1.3. Tags

- `policy.open-cluster-management.io/v1` : Create and manage policies

1.10.2. Paths

1.10.2.1. Create a policy

POST /policy.open-cluster-management.io/v1/v1alpha1/namespaces/{namespace}/policies/{policy_name}

1.10.2.1.1. Description

Create a policy.

1.10.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN} ; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string
Body	body <i>required</i>	Parameters describing the policy to be created.	Policy

1.10.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content

HTTP Code	Description	Schema
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.10.2.1.4. Consumes

- **application/json**

1.10.2.1.5. Tags

- `policy.open-cluster-management.io`

1.10.2.1.6. Example HTTP request

1.10.2.1.6.1. Request body

```
{
  "apiVersion": "policy.open-cluster-management.io/v1",
  "kind": "Policy",
  "metadata": {
    "name": "test-policy-swagger",
    "description": "Example body for Policy API Swagger docs"
  },
  "spec": {
    "remediationAction": "enforce",
    "namespaces": {
      "include": [
        "default"
      ],
      "exclude": [
        "kube*"
      ]
    },
    "policy-templates": {
      "kind": "ConfigurationPolicy",
      "apiVersion": "policy.open-cluster-management.io/v1",
      "complianceType": "musthave",
      "metadataComplianceType": "musthave",
      "metadata": {
        "namespace": null,
        "name": "test-role"
      },
      "selector": {
        "matchLabels": {
          "cloud": "IBM"
        }
      }
    }
  }
}
```

```
}
},
"spec" : {
  "object-templates": {
    "complianceType": "musthave",
    "metadataComplianceType": "musthave",
    "objectDefinition": {
      "apiVersion": "rbac.authorization.k8s.io/v1",
      "kind": "Role",
      "metadata": {
        "name": "role-policy",
      },
      "rules": [
        {
          "apiGroups": [
            "extensions",
            "apps"
          ],
          "resources": [
            "deployments"
          ],
          "verbs": [
            "get",
            "list",
            "watch",
            "delete"
          ]
        },
        {
          "apiGroups": [
            "core"
          ],
          "resources": [
            "pods"
          ],
          "verbs": [
            "create",
            "update",
            "patch"
          ]
        },
        {
          "apiGroups": [
            "core"
          ],
          "resources": [
            "secrets"
          ],
          "verbs": [
            "get",
            "watch",
            "list",
            "create",
            "delete",
            "update",
            "patch"
          ]
        }
      ]
    }
  }
}
```


1.10.2.3. Query a single policy

```
GET /policy.open-cluster-management.io/v1/namespaces/{namespace}/policies/{policy_name}
```

1.10.2.3.1. Description

Query a single policy for more details.

1.10.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	policy_name <i>required</i>	Name of the policy that you want to query.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.10.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.10.2.3.4. Tags

- policy.open-cluster-management.io

1.10.2.4. Delete a policy

```
DELETE /policy.open-cluster-management.io/v1/namespaces/{namespace}/policies/{policy_name}
```

1.10.2.4.1. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	policy_name <i>required</i>	Name of the policy that you want to delete.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.10.2.4.2. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.10.2.4.3. Tags

- `policy.open-cluster-management.io`

1.10.3. Definitions

1.10.3.1. Policy

Name	Description	Schema
apiVersion <i>required</i>	The versioned schema of Policy.	string
kind <i>required</i>	String value that represents the REST resource.	string
metadata <i>required</i>	Describes rules that define the policy.	object

spec

Name	Description	Schema
remediationAction <i>optional</i>	Value that represents how violations are handled as defined in the resource.	string
namespaceSelector <i>required</i>	Value that represents which namespaces the policy is applied.	string

policy-templates

Name	Description	Schema
apiVersion <i>required</i>	The versioned schema of Policy.	string
kind <i>optional</i>	String value that represents the REST resource.	string
metadata <i>required</i>	Describes rules that define the policy.	object
complianceType	Used to list expected behavior for roles and other Kubernetes object that must be evaluated or applied to the managed clusters.	string
metadataComplianceType <i>optional</i>	Provides a way for users to process labels and annotations of an object differently than the other fields. The parameter value defaults to the same value of the ComplianceType parameter.	string
clusterConditions <i>optional</i>	Section to define labels.	string
rules <i>optional</i>		string

clusterConditions

Name	Description	Schema
matchLabels <i>optional</i>	The label that is required for the policy to be applied to a namespace.	object

Name	Description	Schema
cloud <i>optional</i>	The label that is required for the policy to be applied to a cloud provider.	string

rules

Name	Description	Schema
apiGroups <i>required</i>	List of APIs that the rule applies to.	string
resources <i>required</i>	A list of resource types.	object
verbs <i>required</i>	A list of verbs.	string

1.11. OBSERVABILITY API

1.11.1. Overview

This documentation is for the MultiClusterObservability resource for Red Hat Advanced Cluster Management for Kubernetes. The MultiClusterObservability resource has four possible requests: create, query, delete and update.

1.11.1.1. Version information

Version : 2.10.0

1.11.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.11.1.3. Tags

- observability.open-cluster-management.io : Create and manage multiclusterobservabilities

1.11.2. Paths

1.11.2.1. Create a multiclusterobservability resource

POST /apis/observability.open-cluster-management.io/v1beta2/multiclusterobservabilities

1.11.2.1.1. Description

Create a MultiClusterObservability resource.

1.11.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Body	body <i>required</i>	Parameters describing the MultiClusterObservability resource to be created.	MultiClusterObservability

1.11.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.11.2.1.4. Consumes

- **application/yaml**

1.11.2.1.5. Tags

- observability.apps.open-cluster-management.io

1.11.2.1.6. Example HTTP request

1.11.2.1.6.1. Request body

```
{
  "apiVersion": "observability.open-cluster-management.io/v1beta2",
  "kind": "MultiClusterObservability",
  "metadata": {
    "name": "example"
  },
  "spec": {
    "observabilityAddonSpec": {},
    "storageConfig": {
      "metricObjectStorage": {
```

```

    "name": "thanos-object-storage",
    "key": "thanos.yaml"
  "writeStorage": {
    - "key": " ",
      "name": " "
    - "key": " ",
      "name": " "
  }
}
}
}

```

1.11.2.2. Query all multiclusterobservabilities

GET /apis/observability.open-cluster-management.io/v1beta2/multiclusterobservabilities

1.11.2.2.1. Description

Query your MultiClusterObservability resources for more details.

1.11.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string

1.11.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.11.2.2.4. Consumes

- **application/yaml**

1.11.2.2.5. Tags

- observability.apps.open-cluster-management.io

1.11.2.3. Query a single multiclusterobservability

```
GET /apis/observability.open-cluster-management.io/v1beta2/multiclusterobservabilities/{multiclusterobservability_name}
```

1.11.2.3.1. Description

Query a single MultiClusterObservability resource for more details.

1.11.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	multiclusterobservability_name <i>required</i>	Name of the multiclusterobservability that you want to query.	string

1.11.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.11.2.3.4. Tags

- observability.apps.open-cluster-management.io

1.11.2.4. Delete a multiclusterobservability resource

```
DELETE /apis/observability.open-cluster-management.io/v1beta2/multiclusterobservabilities/{multiclusterobservability_name}
```

1.11.2.4.1. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	multiclusterobservability_name <i>required</i>	Name of the multiclusterobservability that you want to delete.	string

1.11.2.4.2. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.11.2.4.3. Tags

- observability.apps.open-cluster-management.io

1.11.3. Definitions

1.11.3.1. MultiClusterObservability

Name	Description	Schema
apiVersion <i>required</i>	The versioned schema of the MultiClusterObservability.	string
kind <i>required</i>	String value that represents the REST resource, MultiClusterObservability.	string
metadata <i>required</i>	Describes rules that define the policy.	object

spec

Name	Description	Schema
enableDownsampling <i>optional</i>	Enable or disable the downsample. Default value is true . If there is no downsample data, the query is unavailable.	boolean
imagePullPolicy <i>optional</i>	Pull policy for the MultiClusterObservability images. The default value is Always .	corev1.PullPolicy
imagePullSecret <i>optional</i>	Pull secret for the MultiClusterObservability images. The default value is multiclusterhub-operator-pull-secret	string
nodeSelector <i>optional</i>	Specification of the node selector.	map[string]string
observabilityAddonSpec <i>required</i>	The global settings for all managed clusters, which have the observability add-on installed.	observabilityAddonSpec
storageConfig <i>required</i>	Specifies the storage configuration to be used by observability.	StorageConfig
tolerations <i>optional</i>	Provided the ability for all components to tolerate any taints.	[]corev1.Toleration
advanced <i>optional</i>	The advanced configuration settings for observability.	advanced
resources <i>optional</i>	Compute resources required by MultiClusterObservability.	corev1.ResourceRequirements
replicas <i>optional</i>	Replicas for MultiClusterObservability.	integer

storageConfig

Name	Description	Schema
alertmanagerStorageSize <i>optional</i>	The amount of storage applied to the alertmanager stateful sets. Default value is 1Gi .	string
compactStorageSize <i>optional</i>	The amount of storage applied to the thanos compact stateful sets. Default value is 100Gi .	string

Name	Description	Schema
metricObjectStorage <i>required</i>	Object store to configure secrets for metrics.	metricObjectStorage
receiveStorageSize <i>optional</i>	The amount of storage applied to thanos receive stateful sets. Default value is 100Gi .	string
ruleStorageSize <i>optional</i>	The amount of storage applied to thanos rule stateful sets. Default value is 1Gi .	string
storageClass <i>optional</i>	Specify the storageClass stateful sets. This storage is used for the object storage if metricObjectStorage is configured for your operating system to create storage. Default value is gp2 .	string
storeStorageSize <i>optional</i>	The amount of storage applied to thanos store stateful sets. Default value is 10Gi .	string
writeStorage <i>optional</i>	A list of endpoint access information.	[] WriteStorage

writeStorage

Name	Description	Schema
name <i>required</i>	The name of the secret with endpoint access information.	string
key <i>required</i>	The key of the secret to select from.	string

metricObjectStorage

Name	Description	Schema
key <i>required</i>	The key of the secret to select from. Must be a valid secret key. See Thanos documentation .	string

Name	Description	Schema
name <i>required</i>	Name of the metricObjectStorage . See Kubernetes Names for more information.	string

observabilityAddonSpec

Name	Description	Schema
enableMetrics <i>optional</i>	Indicates if the observability add-on sends metrics to the hub cluster. Default value is true .	boolean
interval <i>optional</i>	Interval for when the observability add-on sends metrics to the hub cluster. Default value is 300 seconds (300s).	integer
resources <i>optional</i>	Resource for the metrics collector resource requirement. The default CPU request is 100m , memory request is 100Mi .	corev1.ResourceRequirements

advanced

Name	Description	Schema
retentionConfig <i>optional</i>	Specifies the data retention configuration to be used by observability.	RetentionConfig
rbacQueryProxy <i>optional</i>	Specifies the replicas and resources for the rbac-query-proxy deployment.	CommonSpec
grafana <i>optional</i>	Specifies the replicas and resources for the grafana deployment	CommonSpec
alertmanager <i>optional</i>	Specifies the replicas and resources for alertmanager statefulset.	CommonSpec

Name	Description	Schema
observatoriumAPI <i>optional</i>	Specifies the replicas and resources for the observatorium-api deployment.	CommonSpec
queryFrontend <i>optional</i>	Specifies the replicas and resources for the query-frontend deployment.	CommonSpec
query <i>optional</i>	Specifies the replicas and resources for the query deployment.	CommonSpec
receive <i>optional</i>	Specifies the replicas and resources for the receive statefulset.	CommonSpec
rule <i>optional</i>	Specifies the replicas and resources for rule statefulset.	CommonSpec
store <i>optional</i>	Specifies the replicas and resources for the store statefulset.	CommonSpec
CompactSpec <i>optional</i>	Specifies the resources for compact statefulset.	compact
storeMemcached <i>optional</i>	Specifies the replicas, resources, etc. for store-memcached.	storeMemcached
queryFrontendMemcached <i>optional</i>	Specifies the replicas, resources, etc for query-frontend-memcached.	CacheConfig

retentionConfig

Name	Description	Schema
blockDuration <i>optional</i>	The amount of time to block the duration for Time Series Database (TSDB) block. Default value is 2h .	string

Name	Description	Schema
cleanupInterval <i>optional</i>	The frequency of how often partially uploaded blocks are cleaned, and how often blocks with the deletion mark that have --wait enabled are cleaned. Default value is 5m .	string
deleteDelay <i>optional</i>	The amount of time until a block marked for deletion is deleted from a bucket. Default value is 48h .	string
retentionInLocal <i>optional</i>	The amount of time to retain raw samples from the local storage. Default value is 24h .	string
retentionResolution Raw <i>optional</i>	The amount of time to retain raw samples of resolution in a bucket. Default value is 30 days (30d)	string
retentionResolution 5m <i>optional</i>	The amount of time to retain samples of resolution 1 (5 minutes) in a bucket. Default value is 180 days (180d).	string
retentionResolution 1h <i>optional</i>	The amount of time to retain samples of resolution 2 (1 hour) in a bucket. Default value is 0 days (0d).	string

CompactSpec

Name	Description	Schema
resources <i>optional</i>	Compute resources required by thanos compact.	corev1.ResourceRequirements
serviceAccountAnnotations <i>optional</i>	Annotations is an unstructured key value map stored with the compact service account.	map[string]string

storeMemcached

Name	Description	Schema
resources <i>optional</i>	Compute resources required by MultiClusterObservability.	corev1.ResourceRequirements

Name	Description	Schema
replicas <i>optional</i>	Replicas for MultiClusterObservability.	integer
memoryLimitMb <i>optional</i>	Memory limit of Memcached in megabytes.	integer
maxItemSize <i>optional</i>	Max item size of Memcached. The default value is 1m, min:1k, max:1024m.	string
connectionLimit <i>optional</i>	Max simultaneous connections of Memcached. The default value is	integer

status

Name	Description	Schema
status <i>optional</i>	Status contains the different condition statuses for MultiClusterObservability.	metav1.Condition

CommonSpec

Name	Description	Schema
resources <i>optional</i>	Compute resources required by the component.	corev1.ResourceRequirements
replicas <i>optional</i>	Replicas for the component.	integer

QuerySpec

Name	Description	Schema
CommonSpec <i>optional</i>	Specifies the replicas and resources for the query deployment.	CommonSpec
serviceAccountAnnotations <i>optional</i>	Annotations is an unstructured key value map stored with the query service account.	map[string]string

ReceiveSpec

Name	Description	Schema
CommonSpec <i>optional</i>	Specifies the replicas and resources for the query deployment.	CommonSpec
serviceAccountAnnotations <i>optional</i>	Annotations is an unstructured key value map stored with the query service account.	map[string]string

StoreSpec

Name	Description	Schema
CommonSpec <i>optional</i>	Specifies the replicas and resources for the query deployment.	CommonSpec
serviceAccountAnnotations <i>optional</i>	Annotations is an unstructured key value map stored with the query service account.	map[string]string

RuleSpec

Name	Description	Schema
CommonSpec <i>optional</i>	Specifies the replicas and resources for the query deployment.	CommonSpec
evalInterval <i>optional</i>	Specifies the evaluation interval for the rules.	string
serviceAccountAnnotations <i>optional</i>	Annotations is an unstructured key value map stored with the query service account.	map[string]string

1.12. SEARCH QUERY API

The search query API is not a Kubernetes API, therefore is not displayed through the Red Hat OpenShift Container Platform API Explorer. Continue reading to understand the search query API capabilities.

1.12.1. Overview

You can expose the search query API with a route and use the API to resolve search queries. The API is a GraphQL endpoint. You can use any client such as curl or Postman.

1.12.1.1. Version information

Version : 2.10.0

1.12.1.2. URI scheme

BasePath : /searchapi/graphql
Schemes : HTTPS

1.12.1.3. Configure API access

Create a route to access the Search API external from your cluster with the following command:

```
oc create route passthrough search-api --service=search-search-api -n open-cluster-management
```

Important: You must configure your route to secure your environment. See [Route configuration](#) in the OpenShift Container Platform documentation for more details.

1.12.2. Schema design

```
input SearchFilter {
  property: String!
  values: [String!]
}
input SearchInput {
  keywords: [String]
  filters: [SearchFilter]
  limit: Int
  relatedKinds: [String]
}
type SearchResult {
  count: Int
  items: [Map]
  related: [SearchRelatedResult]
}
type SearchRelatedResult {
  kind: String!
  count: Int
  items: [Map]
}
```

Parameters with ! indicates that the field is required.

1.12.2.1. Description table of query inputs

Type	Description	Property
------	-------------	----------

Type	Description	Property
SearchFilter	Defines a key and value to filter results. When you provide many values for a property, the API interpret the values as an "OR" operation. When you provide many filters, results match all filters and the API interprets as an "AND" operation.	string
SearchInput	Enter key words to receive a list of resources. When you provide many keywords, the API interprets it as an "AND" operation.	String
limit	Determine the maximum number of results returned after you enter the query. The default value is 10,000 . A value of -1 means that the limit is removed.	Integer

1.12.2.2. Schema example

```

{
  "query": "type SearchResult {count: Int!items: [Map]related: [SearchRelatedResult]} type
SearchRelatedResult {kind: String!count: Int!items: [Map]}",
  "variables": {
    "input": [
      {
        "keywords": [],
        "filters": [
          {
            "property": "kind",
            "values": [
              "Deployment"
            ]
          }
        ],
        "limit": 10
      }
    ]
  }
}

```

1.12.3. Generic schema

```

type Query {
  search(input: [SearchInput]): [SearchResult]
}

```

```

searchComplete(property: String!, query: SearchInput, limit: Int): [String]
searchSchema: Map
messages: [Message]
}

```

1.12.4. Supported queries

Continue reading to see the query types that are supported in JSON format.

1.12.4.1. Search for deployments

Query:

```

query mySearch($input: [SearchInput]) {
  search(input: $input) {
    items
  }
}

```

Variables:

```

{"input":[
  {
    "keywords":[],
    "filters":[
      {"property":"kind","values":["Deployment"]},
    ],
    "limit":10
  }
]}

```

1.12.4.2. Search for pods

Query:

```

query mySearch($input: [SearchInput]) {
  search(input: $input) {
    items
  }
}

```

Variables:

```

{"input":[
  {
    "keywords":[],
    "filters":[
      {"property":"kind","values":["Pod"]},
    ],
    "limit":10
  }
]}

```

1.13. MULTICLUSTERHUB API

1.13.1. Overview

This documentation is for the MultiClusterHub resource for Red Hat Advanced Cluster Management for Kubernetes. MultiClusterHub resource has four possible requests: create, query, delete and update.

1.13.1.1. Version information

Version : 2.10.0

1.13.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.13.1.3. Tags

- multiclusterhubs.operator.open-cluster-management.io : Create and manage multicluster hub operators

1.13.2. Paths

1.13.2.1. Create a MultiClusterHub resource

POST /operator.open-cluster-management.io/v1beta1/namespaces/{namespace}/mch

1.13.2.1.1. Description

Create a MultiClusterHub resource to define the configuration for an instance of the multicluster hub.

1.13.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN} ; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string
Body	body <i>required</i>	Parameters describing the multicluster hub to be created.	Definitions

1.13.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content

HTTP Code	Description	Schema
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.13.2.1.4. Consumes

- `multiclusterhubs/yaml`

1.13.2.1.5. Tags

- `multiclusterhubs.operator.open-cluster-management.io`

1.13.2.1.6. Example HTTP request

1.13.2.1.6.1. Request body

```
{
  "apiVersion": "apiextensions.k8s.io/v1",
  "kind": "CustomResourceDefinition",
  "metadata": {
    "name": "multiclusterhubs.operator.open-cluster-management.io"
  },
  "spec": {
    "group": "operator.open-cluster-management.io",
    "names": {
      "kind": "MultiClusterHub",
      "listKind": "MultiClusterHubList",
      "plural": "multiclusterhubs",
      "shortNames": [
        "mch"
      ],
      "singular": "multiclusterhub"
    },
    "scope": "Namespaced",
    "versions": [
      {
        "additionalPrinterColumns": [
          {
            "description": "The overall status of the multicluster hub.",
            "jsonPath": ".status.phase",
            "name": "Status",
            "type": "string"
          }
        ],
        "jsonPath": ".metadata.creationTimestamp",
      }
    ]
  }
}
```

```

    "name": "Age",
    "type": "date"
  }
],
"name": "v1",
"schema": {
  "openAPIV3Schema": {
    "description": "MultiClusterHub defines the configuration for an instance of
the multiCluster hub, a central point for managing multiple Kubernetes-based
clusters. The deployment of multicluster hub components is determined based
on the configuration that is defined in this resource.",
    "properties": {
      "apiVersion": {
        "description": "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",
        "type": "string"
      },
      "kind": {
        "description": "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. The value is in CamelCase. More info:
https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds",
        "type": "string"
      },
      "metadata": {
        "type": "object"
      },
      "spec": {
        "description": "MultiClusterHubSpec defines the desired state of MultiClusterHub.",
        "properties": {
          "availabilityConfig": {
            "description": "Specifies deployment replication for improved availability.
Options are: Basic and High (default).",
            "type": "string"
          },
          "customCAConfigmap": {
            "description": "Provide the customized OpenShift default ingress CA certificate
to {product-title-short}.",
            "type": "string"
          },
          "disableHubSelfManagement": {
            "description": "Disable automatic import of the hub cluster as a managed
cluster.",
            "type": "boolean"
          },
          "disableUpdateClusterImageSets": {
            "description": "Disable automatic update of ClusterImageSets.",
            "type": "boolean"
          },
          "hive": {
            "description": "(Deprecated) Overrides for the default HiveConfig specification.",
            "properties": {
              "additionalCertificateAuthorities": {

```

```

"description": "(Deprecated) AdditionalCertificateAuthorities is
  a list of references to secrets in the 'hive' namespace that
  contain an additional Certificate Authority to use when communicating
  with target clusters. These certificate authorities are
  used in addition to any self-signed CA generated by each cluster
  on installation.",
  "items": {
    "description": "LocalObjectReference contains the information
      to let you locate the referenced object inside the same namespace.",
    "properties": {
      "name": {
        "description": "Name of the referent. More info:
https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names",
        "type": "string"
      }
    },
    "type": "object"
  },
  "type": "array"
},
"backup": {
  "description": "(Deprecated) Backup specifies configuration for backup
    integration. If absent, backup integration is disabled.",
  "properties": {
    "minBackupPeriodSeconds": {
      "description": "(Deprecated) MinBackupPeriodSeconds specifies
        that a minimum of MinBackupPeriodSeconds occurs in between
        each backup. This is used to rate limit backups. This potentially
        batches together multiple changes into one backup. No backups
        are lost for changes that happen during the interval
        that is queued up, and results in a backup once
        the interval has been completed.",
      "type": "integer"
    },
    "velero": {
      "description": "(Deprecated) Velero specifies configuration for the Velero backup
        integration.",
      "properties": {
        "enabled": {
          "description": "(Deprecated) Enabled dictates if the Velero backup integration is enabled. If not
            specified, the default is disabled.",
          "type": "boolean"
        }
      },
      "type": "object"
    },
    "type": "object"
  },
  "externalDNS": {
    "description": "(Deprecated) ExternalDNS specifies configuration for external-dns if it is to be
      deployed by Hive. If absent, external-dns is not deployed.",
    "properties": {
      "aws": {
        "description": "(Deprecated) AWS contains AWS-specific settings for external DNS.",
        "properties": {

```

```

    "credentials": {
      "description": "(Deprecated) Credentials reference a secret that is used to authenticate with AWS
Route53. It needs permission to manage entries in each of the managed domains for this cluster.
Secret should have AWS keys named 'aws_access_key_id' and 'aws_secret_access_key'.",
      "properties": {
        "name": {
          "description": "Name of the referent. More info:
https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names",
          "type": "string"
        }
      }
    },
    "type": "object"
  }
},
"type": "object"
},
"gcpc": {
  "description": "(Deprecated) GCP contains Google Cloud Platform specific settings for external
DNS.",
  "properties": {
    "credentials": {
      "description": "(Deprecated) Credentials reference a secret that is used to authenticate with GCP
DNS. It needs permission to manage entries in each of the managed domains for this cluster. Secret
should have a key names 'osServiceAccount.json'. The credentials must specify the project to use.",
      "properties": {
        "name": {
          "description": "Name of the referent. More info:
https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names",
          "type": "string"
        }
      }
    },
    "type": "object"
  }
},
"type": "object"
},
"failedProvisionConfig": {
  "description": "(Deprecated) FailedProvisionConfig is used to configure settings related to handling
provision failures.",
  "properties": {
    "skipGatherLogs": {
      "description": "(Deprecated) SkipGatherLogs disables functionality that attempts to gather full logs
from the cluster if an installation fails for any reason. The logs are stored in a persistent volume for up
to seven days.",
      "type": "boolean"
    }
  }
},
"type": "object"
},
"globalPullSecret": {
  "description": "(Deprecated) GlobalPullSecret is used to specify a pull secret that is used globally by
all of the cluster deployments. For each cluster deployment, the contents of GlobalPullSecret are
merged with the specific pull secret for a cluster deployment(if specified), with precedence given to

```



```

the contents of the pull secret for the cluster deployment.",
  "properties": {
    "name": {
      "description": "Name of the referent. More info:
https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names",
      "type": "string"
    }
  },
  "type": "object"
},
"maintenanceMode": {
  "description": "(Deprecated) MaintenanceMode can be set to true to disable the Hive controllers
in situations where you need to ensure nothing is running that adds or act upon finalizers on Hive
types. This should rarely be needed. Sets replicas to zero for the 'hive-controllers' deployment to
accomplish this.",
  "type": "boolean"
},
"required": [
  "failedProvisionConfig"
],
"type": "object"
},
"imagePullSecret": {
  "description": "Override pull secret for accessing MultiClusterHub operand and endpoint images.",
  "type": "string"
},
"ingress": {
  "description": "Configuration options for ingress management.",
  "properties": {
    "sslCiphers": {
      "description": "List of SSL ciphers enabled for management ingress. Defaults to full list of supported
ciphers.",
      "items": {
        "type": "string"
      },
      "type": "array"
    }
  },
  "type": "object"
},
"nodeSelector": {
  "additionalProperties": {
    "type": "string"
  },
  "description": "Set the node selectors..",
  "type": "object"
},
"overrides": {
  "description": "Developer overrides.",
  "properties": {
    "imagePullPolicy": {
      "description": "Pull policy of the multicluster hub images.",
      "type": "string"
    }
  }
},

```

```

    "type": "object"
  },
  "separateCertificateManagement": {
    "description": "(Deprecated) Install cert-manager into its own namespace.",
    "type": "boolean"
  },
  "type": "object"
},
"status": {
"description": "MultiClusterHubStatus defines the observed state of MultiClusterHub.",
"properties": {
  "components": {
    "additionalProperties": {
      "description": "StatusCondition contains condition information.",
      "properties": {
        "lastTransitionTime": {
          "description": "LastTransitionTime is the last time the condition changed from one status to
another.",
          "format": "date-time",
          "type": "string"
        },
        "message": {
          "description": "Message is a human-readable message indicating details about the last status
change.",
          "type": "string"
        },
        "reason": {
          "description": "Reason is a (brief) reason for the last status change of the condition.",
          "type": "string"
        },
        "status": {
          "description": "Status is the status of the condition. One of True, False, Unknown.",
          "type": "string"
        }
      },
      "type": {
        "description": "Type is the type of the cluster condition.",
        "type": "string"
      }
    }
  },
  "type": "object"
},
"description": "Components []ComponentCondition `json:\"manifests,omitempty\"\"",
"type": "object"
},
"conditions": {
"description": "Conditions contain the different condition statuses for the MultiClusterHub.",
"items": {
  "description": "StatusCondition contains condition information.",
  "properties": {
    "lastTransitionTime": {
      "description": "LastTransitionTime is the last time the condition changed from one status to
another.",
      "format": "date-time",
      "type": "string"
    }
  },

```

```

    "lastUpdateTime": {
      "description": "The last time this condition was updated.",
      "format": "date-time",
      "type": "string"
    },
    "message": {
      "description": "Message is a human-readable message indicating details about the last status
change.",
      "type": "string"
    },
    "reason": {
      "description": "Reason is a (brief) reason for the last status change of the condition.",
      "type": "string"
    },
    "status": {
      "description": "Status is the status of the condition. One of True, False, Unknown.",
      "type": "string"
    },
    "type": {
      "description": "Type is the type of the cluster condition.",
      "type": "string"
    }
  },
  "type": "object"
},
"array": "array"
},
"currentVersion": {
  "description": "CurrentVersion indicates the current version..",
  "type": "string"
},
"desiredVersion": {
  "description": "DesiredVersion indicates the desired version.",
  "type": "string"
},
"phase": {
  "description": "Represents the running phase of the MultiClusterHub",
  "type": "string"
}
},
  "type": "object"
}
},
  "type": "object"
}
},
"served": true,
"storage": true,
"subresources": {
  "status": {}
}
}
]
}
}

```

1.13.2.2. Query all MultiClusterHubs

```
GET /operator.open-cluster-management.io/v1beta1/namespaces/{namespace}/operator
```

1.13.2.2.1. Description

Query your multicluster hub operator for more details.

1.13.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.13.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.13.2.2.4. Consumes

- **operator/yaml**

1.13.2.2.5. Tags

- multiclusterhubs.operator.open-cluster-management.io

1.13.2.3. Query a MultiClusterHub operator

```
GET /operator.open-cluster-management.io/v1beta1/namespaces/{namespace}/operator/{multiclusterhub_name}
```

1.13.2.3.1. Description

Query a single multicluster hub operator for more details.

1.13.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	application_name <i>required</i>	Name of the application that you want to query.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.13.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.13.2.3.4. Tags

- multiclusterhubs.operator.open-cluster-management.io

1.13.2.4. Delete a MultiClusterHub operator

```
DELETE /operator.open-cluster-
management.io/v1beta1/namespaces/{namespace}/operator/{multiclusterhub_name}
```

1.13.2.4.1. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string

Type	Name	Description	Schema
Path	application_name <i>required</i>	Name of the multicluster hub operator that you want to delete.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.13.2.4.2. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.13.2.4.3. Tags

- `multiclusterhubs.operator.open-cluster-management.io`

1.13.3. Definitions

1.13.3.1. Multicluster hub operator

Name	Description	Schema
apiVersion <i>required</i>	The versioned schema of the MultiClusterHub.	string
kind <i>required</i>	String value that represents the REST resource.	string
metadata <i>required</i>	Describes rules that define the resource.	object
spec <i>required</i>	The resource specification.	spec

spec

availabilityConfig <i>optional</i>	Specifies deployment replication for improved availability. The default value is High .	string
customCAConfigmap <i>optional</i>	Provide the customized OpenShift default ingress CA certificate to Red Hat Advanced Cluster Management.	string
disableHubSelfManagement <i>optional</i>	Disable automatic import of the hub cluster as a managed cluster.	boolean
disableUpdateClusterImageSets <i>optional</i>	Disable automatic update of ClusterImageSets.	boolean
hive <i>optional</i>	(Deprecated) An object that overrides for the default HiveConfig specification.	hive
imagePullSecret <i>optional</i>	Overrides pull secret for accessing MultiClusterHub operand and endpoint images.	string
ingress <i>optional</i>	Configuration options for ingress management.	ingress
nodeSelector <i>optional</i>	Set the node selectors.	string
separateCertificateManagement <i>optional</i>	(Deprecated) Install cert-manager into its own namespace.	boolean

hive

additionalCertificateAuthorities <i>optional</i>	(Deprecated) A list of references to secrets in the hive namespace that contain an additional Certificate Authority to use when communicating with target clusters. These certificate authorities are used in addition to any self-signed CA generated by each cluster on installation.	object
backup <i>optional</i>	(Deprecated) Specifies the configuration for backup integration. If absent, backup integration is disabled.	backup
externalDNS <i>optional</i>	(Deprecated) Specifies configuration for external-dns if it is to be deployed by Hive. If absent, external-dns is not be deployed.	object
failedProvisionConfig <i>required</i>	(Deprecated) Used to configure settings related to handling provision failures.	failedProvisionConfig
globalPullSecret <i>optional</i>	(Deprecated) Used to specify a pull secret that is used globally by all of the cluster deployments. For each cluster deployment, the contents of globalPullSecret are merged with the specific pull secret for a cluster deployment (if specified), with precedence given to the contents of the pull secret for the cluster deployment.	object
maintenanceMode <i>optional</i>	(Deprecated) Can be set to true to disable the hive controllers in situations where you need to ensure nothing is running that adds or acts upon finalizers on Hive types. This should rarely be needed. Sets replicas to 0 for the hive-controllers deployment to accomplish this.	boolean

ingress

sslCiphers <i>optional</i>	List of SSL ciphers enabled for management ingress. Defaults to full list of supported ciphers.	string
--------------------------------------	---	--------

backup

minBackupPeriodSeconds <i>optional</i>	(Deprecated) Specifies that a minimum of MinBackupPeriodSeconds occurs in between each backup. This is used to rate limit backups. This potentially batches together multiple changes into one backup. No backups are lost as changes happen during this interval are queued up and result in a backup happening once the interval has been completed.	integer
velero <i>optional</i>	(Deprecated) Velero specifies configuration for the Velero backup integration.	object

failedProvisionConfig

skipGatherLogs <i>optional</i>	(Deprecated) Disables functionality that attempts to gather full logs from the cluster if an installation fails for any reason. The logs are stored in a persistent volume for up to seven days.	boolean
--	--	---------

status

components <i>optional</i>	The components of the status configuration.	object
conditions <i>optional</i>	Contains the different conditions for the multicluster hub.	conditions
desiredVersion <i>optional</i>	Indicates the desired version.	string

components <i>optional</i>	The components of the status configuration.	object
phase <i>optional</i>	Represents the active phase of the MultiClusterHub resource. The values that are used for this parameter are: Pending, Running, Installing, Updating, Uninstalling	string

conditions

lastTransitionTime <i>optional</i>	The last time the condition changed from one status to another.	string
lastUpdateTime <i>optional</i>	The last time this condition was updated.	string
message <i>required</i>	Message is a human-readable message indicating details about the last status change.	string
reason <i>required</i>	A brief reason for why the condition status changed.	string
status <i>required</i>	The status of the condition.	string
type <i>required</i>	The type of the cluster condition.	string

StatusConditions

kind <i>required</i>	The resource kind that represents this status.	string
available <i>required</i>	Indicates whether this component is properly running.	boolean
lastTransitionTime <i>optional</i>	The last time the condition changed from one status to another.	metav1.time
lastUpdateTime <i>optional</i>	The last time this condition was updated.	metav1.time

kind <i>required</i>	The resource kind that represents this status.	string
message <i>required</i>	Message is a human-readable message indicating details about the last status change.	string
reason <i>optional</i>	A brief reason for why the condition status changed.	string
status <i>optional</i>	The status of the condition.	string
type <i>optional</i>	The type of the cluster condition.	string

1.14. PLACEMENT API (V1BETA1)

1.14.1. Overview

This documentation is for the Placement resource for Red Hat Advanced Cluster Management for Kubernetes. The Placement resource has four possible requests: create, query, delete, and update. Placement defines a rule to select a set of ManagedClusters from the ManagedClusterSets that are bound to the placement namespace. A slice of PlacementDecisions with the label **cluster.open-cluster-management.io/placement={placement name}** is created to represent the ManagedClusters that are selected by this placement.

1.14.1.1. Version information

Version : 2.10.0

1.14.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.14.1.3. Tags

- cluster.open-cluster-management.io : Create and manage Placements

1.14.2. Paths

1.14.2.1. Query all Placements

```
GET /cluster.open-cluster-management.io/v1beta1/namespaces/{namespace}/placement
```

1.14.2.1.1. Description

Query your Placements for more details.

1.14.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string

1.14.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.14.2.1.4. Consumes

- **placement/yaml**

1.14.2.1.5. Tags

- cluster.open-cluster-management.io

1.14.2.2. Create a Placement

POST /cluster.open-cluster-management.io/v1beta1/namespaces/{namespace}/placements

1.14.2.2.1. Description

Create a Placement.

1.14.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Body	body <i>required</i>	Parameters describing the placement binding to be created.	Placement

1.14.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.14.2.2.4. Consumes

- **placement/yaml**

1.14.2.2.5. Tags

- cluster.open-cluster-management.io

1.14.2.2.6. Example HTTP request

1.14.2.2.6.1. Request body

```
{
  "apiVersion" : "cluster.open-cluster-management.io/v1beta1",
  "kind" : "Placement",
  "metadata" : {
    "name" : "placement1",
    "namespace": "ns1"
  },
  "spec": {
    "predicates": [
      {
        "requiredClusterSelector": {
          "labelSelector": {
            "matchLabels": {
              "vendor": "OpenShift"
            }
          }
        }
      }
    ]
  },
  "status" : {}
}
```

1.14.2.3. Query a single Placement

GET /cluster.open-cluster-management.io/v1beta1/namespaces/{namespace}/placements/{placement_name}

1.14.2.3.1. Description

Query a single Placement for more details.

1.14.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	placement_name <i>required</i>	Name of the Placement that you want to query.	string

1.14.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.14.2.3.4. Tags

- cluster.open-cluster-management.io

1.14.2.4. Delete a Placement

DELETE /cluster.open-cluster-management.io/v1beta1/namespaces/{namespace}/placements/{placement_name}

1.14.2.4.1. Description

Delete a single Placement.

1.14.2.4.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	placement_name <i>required</i>	Name of the Placement that you want to delete.	string

1.14.2.4.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.14.2.4.4. Tags

- cluster.open-cluster-management.io

1.14.3. Definitions

1.14.3.1. Placement

Name	Description	Schema
apiVersion <i>required</i>	Versioned schema of the Placement.	string
kind <i>required</i>	String value that represents the REST resource.	string
metadata <i>required</i>	Metadata of the Placement.	object
spec <i>required</i>	Specification of the Placement.	spec

spec

Name	Description	Schema
clusterSets <i>optional</i>	A subset of ManagedClusterSets from which the ManagedClusters are selected. If the ManagedClusterSet is empty, ManagedClusters are selected from the ManagedClusterSets that are bound to the Placement namespace. If the ManagedClusterSet contains ManagedClusters , ManagedClusters are selected from the intersection of this subset. The selected ManagedClusterSets are bound to the placement namespace.	string array
numberOfClusters <i>optional</i>	Number of ManagedClusters that you want to be selected.	integer (int32)
predicates <i>optional</i>	Subset of cluster predicates that select ManagedClusters . The conditional logic is <i>OR</i> .	clusterPredicate array
prioritizerPolicy <i>optional</i>	Policy of the prioritizers.	prioritizerPolicy
tolerations <i>optional</i>	Value that allows, but does not require, the managed clusters with certain taints to be selected by placements with matching tolerations.	toleration array

clusterPredicate

Name	Description	Schema
requiredClusterSelector <i>optional</i>	A cluster selector to select ManagedClusters with a label and cluster claim.	clusterSelector

clusterSelector

Name	Description	Schema
labelSelector <i>optional</i>	Selector of ManagedClusters by label.	object
claimSelector <i>optional</i>	Selector of ManagedClusters by claim.	clusterClaimSelector

clusterClaimSelector

Name	Description	Schema
matchExpressions <i>optional</i>	Subset of the cluster claim selector requirements. The conditional logic is <i>AND</i> .	< object > array

prioritizerPolicy

Name	Description	Schema
mode <i>optional</i>	Either Exact , Additive , or "". The default value of "" is Additive .	string
configurations <i>optional</i>	Configuration of the prioritizer.	prioritizerConfig array

prioritizerConfig

Name	Description	Schema
scoreCoordinate <i>required</i>	Configuration of the prioritizer and score source.	scoreCoordinate
weight <i>optional</i>	Weight of the prioritizer score. The value must be within the range: [-10,10].	int32

scoreCoordinate

Name	Description	Schema
type <i>required</i>	Type of the prioritizer score. Valid values are "BuiltIn" or "AddOn".	string

Name	Description	Schema
builtIn <i>optional</i>	Name of a BuiltIn prioritizer from the following options: 1) Balance: Balance the decisions among the clusters. 2) Steady: Ensure the existing decision is stabilized. 3) ResourceAllocatableCPU & ResourceAllocatableMemory: Sort clusters based on the allocatable resources. 4) Spread: Spread the workload evenly to topologies.	string
addOn <i>optional</i>	When type is AddOn , AddOn defines the resource name and score name.	object

toleration

Name	Description	Schema
key <i>optional</i>	Taint key that the toleration applies to. Empty means match all of the taint keys.	string
operator <i>optional</i>	Relationship of a key to the value. Valid operators are Exists and Equal . The default value is Equal .	string
value <i>optional</i>	Taint value that matches the toleration.	string
effect <i>optional</i>	Taint effect to match. Empty means match all of the taint effects. When specified, allowed values are NoSelect , PreferNoSelect , and NoSelectIfNew .	string
tolerationSeconds <i>optional</i>	Length of time that a taint is tolerated, after which the taint is not tolerated. The default value is nil, which indicates that there is no time limit on how long the taint is tolerated.	int64

1.15. PLACEMENTDECISIONS API (V1BETA1)

1.15.1. Overview

This documentation is for the PlacementDecision resource for Red Hat Advanced Cluster Management for Kubernetes. The PlacementDecision resource has four possible requests: create, query, delete, and update. A PlacementDecision indicates a decision from a placement. A PlacementDecision uses the label **cluster.open-cluster-management.io/placement={placement name}** to reference a certain placement.

1.15.1.1. Version information

Version : 2.10.0

1.15.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.15.1.3. Tags

- cluster.open-cluster-management.io : Create and manage PlacementDecisions.

1.15.2. Paths

1.15.2.1. Query all PlacementDecisions

GET /cluster.open-cluster-management.io/v1beta1/namespaces/{namespace}/placementdecisions

1.15.2.1.1. Description

Query your PlacementDecisions for more details.

1.15.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string

1.15.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content

HTTP Code	Description	Schema
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.15.2.1.4. Consumes

- **placementdecision/yaml**

1.15.2.1.5. Tags

- cluster.open-cluster-management.io

1.15.2.2. Create a PlacementDecision

POST /cluster.open-cluster-management.io/v1beta1/namespaces/{namespace}/placementdecisions

1.15.2.2.1. Description

Create a PlacementDecision.

1.15.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Body	body <i>required</i>	Parameters describing the PlacementDecision to be created.	PlacementDecision

1.15.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content

HTTP Code	Description	Schema
503	Service unavailable	No Content

1.15.2.2.4. Consumes

- **placementdecision/yaml**

1.15.2.2.5. Tags

- cluster.open-cluster-management.io

1.15.2.2.6. Example HTTP request

1.15.2.2.6.1. Request body

```
{
  "apiVersion" : "cluster.open-cluster-management.io/v1beta1",
  "kind" : "PlacementDecision",
  "metadata" : {
    "labels" : {
      "cluster.open-cluster-management.io/placement" : "placement1"
    },
    "name" : "placement1-decision1",
    "namespace": "ns1"
  },
  "status" : {}
}
```

1.15.2.3. Query a single PlacementDecision

```
GET /cluster.open-cluster-management.io/v1beta1/namespaces/{namespace}/placementdecisions/{placementdecision_name}
```

1.15.2.3.1. Description

Query a single PlacementDecision for more details.

1.15.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	placementdecision_name <i>required</i>	Name of the PlacementDecision that you want to query.	string

1.15.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.15.2.3.4. Tags

- cluster.open-cluster-management.io

1.15.2.4. Delete a PlacementDecision

```
DELETE /cluster.open-cluster-management.io/v1beta1/namespaces/{namespace}/placementdecisions/{placementdecision_name}
```

1.15.2.4.1. Description

Delete a single PlacementDecision.

1.15.2.4.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	placementdecision_name <i>required</i>	Name of the PlacementDecision that you want to delete.	string

1.15.2.4.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content

HTTP Code	Description	Schema
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.15.2.4.4. Tags

- cluster.open-cluster-management.io

1.15.3. Definitions

1.15.3.1. PlacementDecision

Name	Description	Schema
apiVersion <i>required</i>	Versioned schema of PlacementDecision .	string
kind <i>required</i>	String value that represents the REST resource.	string
metadata <i>required</i>	Metadata of PlacementDecision .	object
status <i>optional</i>	Current status of the PlacementDecision .	PlacementStatus

PlacementStatus

Name	Description	Schema
Decisions <i>required</i>	Slice of decisions according to a placement.	ClusterDecision array

ClusterDecision

Name	Description	Schema
clusterName <i>required</i>	Name of the ManagedCluster .	string

Name	Description	Schema
reason <i>required</i>	Reason why the ManagedCluster is selected.	string

1.16. DISCOVERYCONFIG API

1.16.1. Overview

This documentation is for the DiscoveryConfig resource for Red Hat Advanced Cluster Management for Kubernetes. The DiscoveryConfig resource has four possible requests: create, query, delete, and update.

1.16.1.1. Version information

Version : 2.10.0

1.16.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.16.1.3. Tags

- discoveryconfigs.discovery.open-cluster-management.io : Create and manage DiscoveryConfigs

1.16.2. Paths

1.16.2.1. Create a DiscoveryConfig

POST /app.k8s.io/v1/namespaces/{namespace}/discoveryconfigs

1.16.2.1.1. Description

Create a DiscoveryConfig.

1.16.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

Type	Name	Description	Schema
Body	body <i>required</i>	Parameters describing the DiscoveryConfig to be created.	DiscoveryConfig

1.16.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.16.2.1.4. Consumes

- **discoveryconfigs/yaml**

1.16.2.1.5. Tags

- `discoveryconfigs.discovery.open-cluster-management.io`

1.16.2.1.5.1. Request body

```
{
  "apiVersion": "apiextensions.k8s.io/v1",
  "kind": "CustomResourceDefinition",
  "metadata": {
    "annotations": {
      "controller-gen.kubebuilder.io/version": "v0.4.1",
    },
    "creationTimestamp": null,
    "name": "discoveryconfigs.discovery.open-cluster-management.io",
  },
  "spec": {
    "group": "discovery.open-cluster-management.io",
    "names": {
      "kind": "DiscoveryConfig",
      "listKind": "DiscoveryConfigList",
      "plural": "discoveryconfigs",
      "singular": "discoveryconfig"
    },
    "scope": "Namespaced",
    "versions": [
```

```

{
  "name": "v1",
  "schema": {
    "openAPIV3Schema": {
      "description": "DiscoveryConfig is the Schema for the discoveryconfigs API",
      "properties": {
        "apiVersion": {
          "description": "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",
          "type": "string"
        },
        "kind": {
          "description": "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",
          "type": "string"
        },
        "metadata": {
          "type": "object"
        },
        "spec": {
          "description": "DiscoveryConfigSpec defines the desired state of DiscoveryConfig",
          "properties": {
            "credential": {
              "description": "Credential is the secret containing credentials to connect to the OCM api on behalf of a user",
              "type": "string"
            },
            "filters": {
              "description": "Sets restrictions on what kind of clusters to discover",
              "properties": {
                "lastActive": {
                  "description": "LastActive is the last active in days of clusters to discover, determined by activity timestamp",
                  "type": "integer"
                },
                "openShiftVersions": {
                  "description": "OpenShiftVersions is the list of release versions of OpenShift of the form \"<Major>.<Minor>\"",
                  "items": {
                    "description": "Semver represents a partial semver string with the major and minor version in the form \"<Major>.<Minor>\". For example: \"4.13\"",
                    "pattern": "^(?:0|[1-9]\\d*)(?:0|[1-9]\\d*)$",
                    "type": "string"
                  },
                  "type": "array"
                }
              }
            }
          }
        },
        "type": "object"
      }
    }
  },
  "required": [
    "credential"
  ]
}

```

```

    ],
    "type": "object"
  },
  "status": {
    "description": "DiscoveryConfigStatus defines the observed state of DiscoveryConfig",
    "type": "object"
  }
}
},
"type": "object"
}
},
"served": true,
"storage": true,
"subresources": {
  "status": {}
}
}
]
},
"status": {
  "acceptedNames": {
    "kind": "",
    "plural": ""
  },
  "conditions": [],
  "storedVersions": []
}
}
}

```

1.16.2.2. Query all DiscoveryConfigs

```
GET /operator.open-cluster-management.io/v1/namespaces/{namespace}/operator
```

1.16.2.2.1. Description

Query your discovery config operator for more details.

1.16.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.16.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.16.2.2.4. Consumes

- **operator/yaml**

1.16.2.2.5. Tags

- `discoveryconfigs.discovery.open-cluster-management.io`

1.16.2.3. Delete a DiscoveryConfig operator

```
DELETE /operator.open-cluster-management.io/v1/namespaces/{namespace}/operator/{discoveryconfigs_name}
```

1.16.2.3.1. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	application_name <i>required</i>	Name of the Discovery Config operator that you want to delete.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.16.2.3.2. Responses

HTTP Code	Description	Schema
200	Success	No Content

HTTP Code	Description	Schema
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.16.2.3.3. Tags

- `discoveryconfigs.operator.open-cluster-management.io`

1.16.3. Definitions

1.16.3.1. DiscoveryConfig

Name	Description	Schema
apiVersion <i>required</i>	The versioned schema of the discoveryconfigs.	string
kind <i>required</i>	String value that represents the REST resource.	string
metadata <i>required</i>	Describes rules that define the resource.	object
spec <i>required</i>	Defines the desired state of DiscoveryConfig.	See <i>List of specs</i>

1.16.3.2. List of specs

Name	Description	Schema
credential <i>required</i>	Credential is the secret containing credentials to connect to the OCM API on behalf of a user.	string
filters <i>optional</i>	Sets restrictions on what kind of clusters to discover.	See <i>List of filters</i>

1.16.3.3. List of filters

Name	Description	Schema
lastActive <i>required</i>	LastActive is the last active in days of clusters to discover, determined by activity timestamp.	integer
openShiftVersions <i>optional</i>	OpenShiftVersions is the list of release versions of OpenShift of the form "<Major>.<Minor>"	object

1.17. DISCOVEREDCLUSTER API

1.17.1. Overview

This documentation is for the DiscoveredCluster resource for Red Hat Advanced Cluster Management for Kubernetes. The DiscoveredCluster resource has four possible requests: create, query, delete, and update.

1.17.1.1. Version information

Version : 2.10.0

1.17.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.17.1.3. Tags

- discoveredclusters.discovery.open-cluster-management.io : Create and manage DiscoveredClusters

1.17.2. Paths

1.17.2.1. Create a DiscoveredCluster

POST /app.k8s.io/v1/namespaces/{namespace}/discoveredclusters

1.17.2.1.1. Description

Create a DiscoveredCluster.

1.17.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string

Type	Name	Description	Schema
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string
Body	body <i>required</i>	Parameters describing the DiscoveredCluster to be created.	DiscoveredCluster

1.17.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.17.2.1.4. Consumes

- **discoveredclusters/yaml**

1.17.2.1.5. Tags

- discoveredclusters.discovery.open-cluster-management.io

1.17.2.1.5.1. Request body

```
{
  "apiVersion": "apiextensions.k8s.io/v1",
  "kind": "CustomResourceDefinition",
  "metadata": {
    "annotations": {
      "controller-gen.kubebuilder.io/version": "v0.4.1",
    },
    "creationTimestamp": null,
    "name": "discoveredclusters.discovery.open-cluster-management.io",
  },
  "spec": {
    "group": "discovery.open-cluster-management.io",
    "names": {
      "kind": "DiscoveredCluster",
      "listKind": "DiscoveredClusterList",
      "plural": "discoveredclusters",
      "singular": "discoveredcluster"
    }
  }
}
```

```

},
"scope": "Namespaced",
"versions": [
  {
    "name": "v1",
    "schema": {
      "openAPIV3Schema": {
        "description": "DiscoveredCluster is the Schema for the discoveredclusters API",
        "properties": {
          "apiVersion": {
            "description": "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",
            "type": "string"
          },
          "kind": {
            "description": "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",
            "type": "string"
          },
          "metadata": {
            "type": "object"
          },
          "spec": {
            "description": "DiscoveredClusterSpec defines the desired state of DiscoveredCluster",
            "properties": {
              "activityTimestamp": {
                "format": "date-time",
                "type": "string"
              },
              "apiUrl": {
                "type": "string"
              },
              "cloudProvider": {
                "type": "string"
              },
              "console": {
                "type": "string"
              },
              "creationTimestamp": {
                "format": "date-time",
                "type": "string"
              },
              "credential": {
                "description": "ObjectReference contains enough information to let you inspect or modify
the referred object. --- New uses of this type are discouraged because of difficulty describing its
usage when embedded in APIs.
1. Ignored fields. It includes many fields which are not generally
honored. For instance, ResourceVersion and FieldPath are both very rarely valid in actual usage.
2. Invalid usage help. It is impossible to add specific help for individual usage. In most embedded
usages, there are particular restrictions like, \"must refer only to types A and B\" or \"UID not
honored\" or \"name must be restricted\". Those cannot be well described when embedded.
3. Inconsistent validation. Because the usages are different, the validation rules are different by usage,
which makes it hard for users to predict what will happen.
4. The fields are both imprecise and overly

```

the referred object. --- New uses of this type are discouraged because of difficulty describing its usage when embedded in APIs. 1. Ignored fields. It includes many fields which are not generally honored. For instance, ResourceVersion and FieldPath are both very rarely valid in actual usage. 2. Invalid usage help. It is impossible to add specific help for individual usage. In most embedded usages, there are particular restrictions like, \"must refer only to types A and B\" or \"UID not honored\" or \"name must be restricted\". Those cannot be well described when embedded. 3. Inconsistent validation. Because the usages are different, the validation rules are different by usage, which makes it hard for users to predict what will happen. 4. The fields are both imprecise and overly

precise. Kind is not a precise mapping to a URL. This can produce ambiguity during interpretation and require a REST mapping. In most cases, the dependency is on the group,resource tuple and the version of the actual struct is irrelevant. 5. We cannot easily change it. Because this type is embedded in many locations, updates to this type will affect numerous schemas. Don't make new APIs embed an underspecified API type they do not control. Instead of using this type, create a locally provided and used type that is well-focused on your reference. For example, ServiceReferences for admission registration: <https://github.com/kubernetes/api/blob/release-1.17/admissionregistration/v1/types.go#L533> .",

```

    "properties": {
      "apiVersion": {
        "description": "API version of the referent.",
        "type": "string"
      },
      "fieldPath": {
        "description": "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 desiredState.manifest.containers[2]. For example, if the object reference is to a container within a pod, this would take on a value like: \"spec.containers{name}\" (where \"name\" refers to the name of the container that triggered the event) or if no container name is specified \"spec.containers[2]\" (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.",
        "type": "string"
      },
      "kind": {
        "description": "Kind of the referent. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds",
        "type": "string"
      },
      "name": {
        "description": "Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names",
        "type": "string"
      },
      "namespace": {
        "description": "Namespace of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/",
        "type": "string"
      },
      "resourceVersion": {
        "description": "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",
        "type": "string"
      },
      "uid": {
        "description": "UID of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#uids",
        "type": "string"
      }
    },
    "type": "object"
  },
  "displayName": {
    "type": "string"
  },
  "isManagedCluster": {

```

```

        "type": "boolean"
      },
      "name": {
        "type": "string"
      },
      "openshiftVersion": {
        "type": "string"
      },
      "status": {
        "type": "string"
      },
      "type": {
        "type": "string"
      }
    },
    "required": [
      "apiUrl",
      "displayName",
      "isManagedCluster",
      "name",
      "type"
    ],
    "type": "object"
  },
  "status": {
    "description": "DiscoveredClusterStatus defines the observed state of DiscoveredCluster",
    "type": "object"
  }
},
"type": "object"
}
},
"served": true,
"storage": true,
"subresources": {
  "status": {}
}
}
]
},
"status": {
  "acceptedNames": {
    "kind": "",
    "plural": ""
  },
  "conditions": [],
  "storedVersions": []
}
}

```

1.17.2.2. Query all DiscoveredClusters

GET /operator.open-cluster-management.io/v1/namespaces/{namespace}/operator

1.17.2.2.1. Description

Query your discovered clusters operator for more details.

1.17.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN} ; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.17.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.17.2.2.4. Consumes

- **operator/yaml**

1.17.2.2.5. Tags

- discoveredclusters.discovery.open-cluster-management.io

1.17.2.3. Delete a DiscoveredCluster operator

```
DELETE /operator.open-cluster-management.io/v1/namespaces/{namespace}/operator/{discoveredclusters_name}
```

1.17.2.3.1. Parameters

Type	Name	Description	Schema
------	------	-------------	--------

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	application_name <i>required</i>	Name of the Discovered Cluster operator that you want to delete.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.17.2.3.2. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.17.2.3.3. Tags

- `discoveredclusters.operator.open-cluster-management.io`

1.17.3. Definitions

1.17.3.1. DiscoveredCluster

Name	Description	Schema
apiVersion <i>required</i>	The versioned schema of the discoveredclusters.	string
kind <i>required</i>	String value that represents the REST resource.	string
metadata <i>required</i>	Describes rules that define the resource.	object

Name	Description	Schema
spec <i>required</i>	DiscoveredClusterSpec defines the desired state of DiscoveredCluster.	See <i>List of specs</i>

1.17.3.2. List of specs

Name	Description	Schema
activityTimestamp <i>optional</i>	Discoveredclusters last available activity timestamp.	metav1.time
apiUrl <i>required</i>	Discoveredclusters API URL endpoint.	string
cloudProvider <i>optional</i>	Cloud provider of discoveredcluster.	string
console <i>optional</i>	Discoveredclusters console URL endpoint.	string
creationTimestamp <i>optional</i>	Discoveredclusters creation timestamp.	metav1.time
credential <i>optional</i>	The reference to the credential from which the cluster was discovered.	corev1.ObjectReference
displayName <i>required</i>	The display name of the discovered cluster.	string
isManagedCluster <i>required</i>	If true, cluster is managed by ACM.	boolean
name <i>required</i>	The name of the discoveredcluster.	string
openshiftVersion <i>optional</i>	The OpenShift version of the discovered cluster.	string
status <i>optional</i>	The status of the discovered cluster.	string
type <i>required</i>	The OpenShift flavor (ex. OCP, ROSA, etc.).	string

1.18. ADDONDEPLOYMENTCONFIG API (V1ALPHA1)

1.18.1. Overview

This documentation is for the AddOnDeploymentConfig resource for Red Hat Advanced Cluster Management for Kubernetes. The AddOnDeploymentConfig resource has four possible requests: create, query, delete, and update. AddOnDeploymentConfig represents a deployment configuration for an add-on.

1.18.1.1. Version information

Version : 2.10.0

1.18.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.18.1.3. Tags

- `addon.open-cluster-management.io` : Create and manage AddOnDeploymentConfigs

1.18.2. Paths

1.18.2.1. Query all AddOnDeploymentConfigs

GET /addon.open-cluster-management.io/v1alpha1/namespaces/{namespace}/addondeploymentconfigs

1.18.2.1.1. Description

Query your AddOnDeploymentConfigs for more details.

1.18.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string

1.18.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content

HTTP Code	Description	Schema
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.18.2.1.4. Consumes

- **addondeploymentconfig/yaml**

1.18.2.1.5. Tags

- `addon.open-cluster-management.io`

1.18.2.2. Create a AddOnDeploymentConfig

POST /addon.open-cluster-management.io/v1alpha1/namespaces/{namespace}/addondeploymentconfigs

1.18.2.2.1. Description

Create a AddOnDeploymentConfig.

1.18.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Body	body <i>required</i>	Parameters describing the AddOnDeploymentConfig binding to be created.	AddOnDeploymentConfig

1.18.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content

HTTP Code	Description	Schema
500	Internal service error	No Content
503	Service unavailable	No Content

1.18.2.2.4. Consumes

- **addondeploymentconfig/yaml**

1.18.2.2.5. Tags

- `addon.open-cluster-management.io`

1.18.2.2.6. Example HTTP request

1.18.2.2.6.1. Request body

```
{
  "apiVersion": "addon.open-cluster-management.io/v1alpha1",
  "kind": "AddOnDeploymentConfig",
  "metadata": {
    "name": "deploy-config",
    "namespace": "open-cluster-management-hub"
  },
  "spec": {
    "nodePlacement": {
      "nodeSelector": {
        "node-dedicated": "acm-addon"
      },
      "tolerations": [
        {
          "effect": "NoSchedule",
          "key": "node-dedicated",
          "operator": "Equal",
          "value": "acm-addon"
        }
      ]
    }
  }
}
```

1.18.2.3. Query a single AddOnDeploymentConfig

```
GET /addon.open-cluster-
management.io/v1alpha1/namespaces/{namespace}/addondeploymentconfigs/{addondeploymentconfig
_name}
```

1.18.2.3.1. Description

Query a single `AddOnDeploymentConfig` for more details.

1.18.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	addondeploymentconfig_name <i>required</i>	Name of the <code>AddOnDeploymentConfig</code> that you want to query.	string

1.18.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.18.2.3.4. Tags

- `addon.open-cluster-management.io`

1.18.2.4. Delete a `AddOnDeploymentConfig`

```
DELETE /addon.open-cluster-management.io/v1alpha1/namespaces/{namespace}/addondeploymentconfigs/{addondeploymentconfig_name}
```

1.18.2.4.1. Description

Delete a single `AddOnDeploymentConfig`.

1.18.2.4.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	addondeploymentconfig_name <i>required</i>	Name of the AddOnDeploymentConfig that you want to delete.	string

1.18.2.4.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.18.2.4.4. Tags

- `addon.open-cluster-management.io`

1.18.3. Definitions

1.18.3.1. AddOnDeploymentConfig

Name	Description	Schema
apiVersion <i>required</i>	Versioned schema of the AddOnDeploymentConfig.	string
kind <i>required</i>	String value that represents the REST resource.	string
metadata <i>required</i>	Metadata of the AddOnDeploymentConfig.	object
spec <i>required</i>	Specification of the AddOnDeploymentConfig.	spec

spec

Name	Description	Schema
customizedVariables <i>optional</i>	A list of name-value variables for the current add-on deployment. The add-on implementation can use these variables to render its add-on deployment.	customizedVariable array
nodePlacement <i>required</i>	Enables explicit control over the scheduling of the add-on agents on the managed cluster.	nodePlacement

customizedVariable

Name	Description	Schema
name <i>required</i>	Name of this variable.	string
value <i>optional</i>	Value of this variable.	string

nodePlacement

Name	Description	Schema
nodeSelector <i>optional</i>	Define which nodes the pods are scheduled to run on. When the nodeSelector is empty, the nodeSelector selects all nodes.	map[string]string
tolerations <i>optional</i>	Applied to pods and used to schedule pods to any taint that matches the <key,value,effect> toleration using the matching operator (<operator>).	[]corev1.Toleration

1.19. CLUSTERMANAGEMENTADDON API (V1ALPHA1)

1.19.1. Overview

This documentation is for the ClusterManagementAddOn resource for Red Hat Advanced Cluster Management for Kubernetes. The ClusterManagementAddOn resource has four possible requests: create, query, delete, and update.

ClusterManagementAddOn represents the registration of an add-on to the cluster manager. This

resource allows the user to discover which add-on is available for the cluster manager and also provides metadata information about the add-on. This resource also provides a reference to `ManagedClusterAddOn`, the name of the `ClusterManagementAddOn` resource that is used for the namespace-scoped `ManagedClusterAddOn` resource. `ClusterManagementAddOn` is a cluster-scoped resource.

1.19.1.1. Version information

Version : 2.10.0

1.19.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.19.1.3. Tags

- `addon.open-cluster-management.io` : Create and manage `ClusterManagementAddOns`

1.19.2. Paths

1.19.2.1. Query all `ClusterManagementAddOns`

GET /addon.open-cluster-management.io/v1alpha1/clustermanagementaddons

1.19.2.1.1. Description

Query your `ClusterManagementAddOns` for more details.

1.19.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string

1.19.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content

HTTP Code	Description	Schema
503	Service unavailable	No Content

1.19.2.1.4. Consumes

- `clustermanagementaddon/yaml`

1.19.2.1.5. Tags

- `addon.open-cluster-management.io`

1.19.2.2. Create a ClusterManagementAddOn

POST `/addon.open-cluster-management.io/v1alpha1/clustermanagementaddons`

1.19.2.2.1. Description

Create a ClusterManagementAddOn.

1.19.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Body	body <i>required</i>	Parameters describing the ClusterManagementAddOn binding to be created.	ClusterManagementAddOn

1.19.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.19.2.2.4. Consumes

- **clustermanagementaddon/yaml**

1.19.2.2.5. Tags

- `addon.open-cluster-management.io`

1.19.2.2.6. Example HTTP request

1.19.2.2.6.1. Request body

```
{
  "apiVersion": "addon.open-cluster-management.io/v1alpha1",
  "kind": "ClusterManagementAddOn",
  "metadata": {
    "name": "helloworld"
  },
  "spec": {
    "supportedConfigs": [
      {
        "defaultConfig": {
          "name": "deploy-config",
          "namespace": "open-cluster-management-hub"
        },
        "group": "addon.open-cluster-management.io",
        "resource": "addondeploymentconfigs"
      }
    ]
  },
  "status": {}
}
```

1.19.2.3. Query a single ClusterManagementAddOn

```
GET /addon.open-cluster-management.io/v1alpha1/clustermanagementaddons/{clustermanagementaddon_name}
```

1.19.2.3.1. Description

Query a single ClusterManagementAddOn for more details.

1.19.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	clustermanagementaddon_name <i>required</i>	Name of the ClusterManagementAddOn that you want to query.	string

1.19.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.19.2.3.4. Tags

- `addon.open-cluster-management.io`

1.19.2.4. Delete a ClusterManagementAddOn

DELETE `/addon.open-cluster-management.io/v1alpha1/clustermanagementaddons/{clustermanagementaddon_name}`

1.19.2.4.1. Description

Delete a single ClusterManagementAddOn.

1.19.2.4.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	clustermanagementaddon_name <i>required</i>	Name of the ClusterManagementAddOn that you want to delete.	string

1.19.2.4.3. Responses

HTTP Code	Description	Schema
200	Success	No Content

HTTP Code	Description	Schema
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.19.2.4.4. Tags

- `addon.open-cluster-management.io`

1.19.3. Definitions

1.19.3.1. ClusterManagementAddOn

Name	Description	Schema
apiVersion <i>required</i>	Versioned schema of the ClusterManagementAddOn.	string
kind <i>required</i>	String value that represents the REST resource.	string
metadata <i>required</i>	Metadata of the ClusterManagementAddOn.	object
spec <i>required</i>	Specification of the ClusterManagementAddOn.	spec

spec

Name	Description	Schema
addOnMeta <i>optional</i>	AddOnMeta is a reference to the metadata information for the add-on.	addOnMeta
supportedConfigs <i>optional</i>	SupportedConfigs is a list of configuration types supported by add-on.	configMeta array

addOnMeta

Name	Description	Schema
displayName <i>optional</i>	Represents the name of add-on that is displayed.	string
description <i>optional</i>	Represents the detailed description of the add-on.	string

configMeta

Name	Description	Schema
group <i>optional</i>	Group of the add-on configuration.	string
resource <i>required</i>	Resource of the add-on configuration.	string
defaultConfig <i>required</i>	Represents the namespace and name of the default add-on configuration. This is where all add-ons have a same configuration.	configReferent

configReferent

Name	Description	Schema
namespace <i>optional</i>	Namespace of the add-on configuration. If this field is not set, the configuration is cluster-scope.	string
name <i>required</i>	Name of the add-on configuration.	string

1.20. MANAGEDCLUSTERADDON API (V1ALPHA1)

1.20.1. Overview

This documentation is for the ManagedClusterAddOn resource for Red Hat Advanced Cluster Management for Kubernetes. The ManagedClusterAddOn resource has four possible requests: create, query, delete, and update. ManagedClusterAddOn is the custom resource object which holds the current state of an add-on. This resource should be created in the ManagedCluster namespace.

1.20.1.1. Version information

Version : 2.10.0

1.20.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.20.1.3. Tags

- `addon.open-cluster-management.io` : Create and manage `ManagedClusterAddOns`

1.20.2. Paths

1.20.2.1. Query all `ManagedClusterAddOns`

```
GET /addon.open-cluster-management.io/v1alpha1/namespaces/{namespace}/managedclusteraddons
```

1.20.2.1.1. Description

Query your `ManagedClusterAddOns` for more details.

1.20.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string

1.20.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.20.2.1.4. Consumes

- `managedclusteraddon/yaml`

1.20.2.1.5. Tags

- `addon.open-cluster-management.io`

1.20.2.2. Create a ManagedClusterAddOn

POST `/addon.open-cluster-management.io/v1alpha1/namespaces/{namespace}/managedclusteraddons`

1.20.2.2.1. Description

Create a ManagedClusterAddOn.

1.20.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Body	body <i>required</i>	Parameters that describe the ManagedClusterAddOn binding to be created.	ManagedClusterAddOn

1.20.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.20.2.2.4. Consumes

- `managedclusteraddon/yaml`

1.20.2.2.5. Tags

- `addon.open-cluster-management.io`

1.20.2.2.6. Example HTTP request

1.20.2.2.6.1. Request body

```

{
  "apiVersion": "addon.open-cluster-management.io/v1alpha1",
  "kind": "ManagedClusterAddOn",
  "metadata": {
    "name": "helloworld",
    "namespace": "cluster1"
  },
  "spec": {
    "configs": [
      {
        "group": "addon.open-cluster-management.io",
        "name": "cluster-deploy-config",
        "namespace": "open-cluster-management-hub",
        "resource": "addondeploymentconfigs"
      }
    ],
    "installNamespace": "default"
  },
  "status": {}
}

```

1.20.2.3. Query a single ManagedClusterAddOn

GET /addon.open-cluster-management.io/v1alpha1/namespaces/{namespace}/managedclusteraddons/{managedclusteraddon_name}

1.20.2.3.1. Description

Query a single ManagedClusterAddOn for more details.

1.20.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	managedclusteraddon_name <i>required</i>	Name of the ManagedClusterAddOn that you want to query.	string

1.20.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content

HTTP Code	Description	Schema
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.20.2.3.4. Tags

- `addon.open-cluster-management.io`

1.20.2.4. Delete a ManagedClusterAddOn

DELETE /addon.open-cluster-management.io/v1alpha1/namespaces/{namespace}/managedclusteraddons/{managedclusteraddon_name}

1.20.2.4.1. Description

Delete a single ManagedClusterAddOn.

1.20.2.4.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	managedclusteraddon_name <i>required</i>	Name of the ManagedClusterAddOn that you want to delete.	string

1.20.2.4.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content

HTTP Code	Description	Schema
503	Service unavailable	No Content

1.20.2.4.4. Tags

- `addon.open-cluster-management.io`

1.20.3. Definitions

1.20.3.1. ManagedClusterAddOn

Name	Description	Schema
apiVersion <i>required</i>	Versioned schema of the ManagedClusterAddOn.	string
kind <i>required</i>	String value that represents the REST resource.	string
metadata <i>required</i>	Metadata of the ManagedClusterAddOn.	object
spec <i>required</i>	Specification of the ManagedClusterAddOn.	spec

spec

Name	Description	Schema
installNamespace <i>optional</i>	The namespace on the managed cluster to install the add-on agent. If it is not set, the <code>open-cluster-management-agent-addon</code> namespace is used to install the add-on agent.	string
configs <i>optional</i>	A list of add-on configurations where the current add-on has its own configurations.	addOnConfig array

addOnConfig

Name	Description	Schema
group <i>optional</i>	Group of the add-on configuration.	string
resource <i>required</i>	Resource of the add-on configuration.	string
namespace <i>optional</i>	Namespace of the add-on configuration. If this field is not set, the configuration is cluster-scope.	string
name <i>required</i>	Name of the add-on configuration.	string

1.21. MANAGEDCLUSTERSET API (V1BETA2)

1.21.1. Overview

This documentation is for the ManagedClusterSet resource for Red Hat Advanced Cluster Management for Kubernetes. The ManagedClusterSet resource has four possible requests: create, query, delete, and update. ManagedClusterSet groups two or more managed clusters into a set that you can operate together. Managed clusters that belong to a set can have similar attributes, such as shared use purposes or the same deployment region.

1.21.1.1. Version information

Version : 2.10.0

1.21.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.21.1.3. Tags

- cluster.open-cluster-management.io : Create and manage ManagedClusterSets

1.21.2. Paths

1.21.2.1. Query all managedclustersets

GET /cluster.open-cluster-management.io/v1beta2/namespaces/{namespace}/managedclustersets

1.21.2.1.1. Description

Query your managedclustersets for more details.

1.21.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default.	string

1.21.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.21.2.1.4. Consumes

- **managedclusterset/yaml**

1.21.2.1.5. Tags

- cluster.open-cluster-management.io

1.21.2.2. Create a managedclusterset

POST /cluster.open-cluster-management.io/v1beta2/namespaces/{namespace}/managedclustersets

1.21.2.2.1. Description

Create a managedclusterset.

1.21.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string

Type	Name	Description	Schema
Path	namespace <i>required</i>	Namespace that you want to use, for example, default .	string
Body	body <i>required</i>	Parameters describing the managedclusterset to be created.	Managedclusterset

1.21.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.21.2.2.4. Consumes

- **managedclusterset/yaml**

1.21.2.2.5. Tags

- cluster.open-cluster-management.io

1.21.2.2.6. Example HTTP request

1.21.2.2.6.1. Request body

```
{
  "apiVersion" : "cluster.open-cluster-management.io/v1beta2",
  "kind" : "ManagedClusterSet",
  "metadata" : {
    "name" : "example-clusterset",
  },
  "spec": {
  },
  "status" : { }
}
```

1.21.2.3. Query a single managedclusterset

GET /cluster.open-cluster-management.io/v1beta2/namespaces/{namespace}/managedclustersets/{managedclusterset_name}

1.21.2.3.1. Description

Query a single managedclusterset for more details.

1.21.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default .	string
Path	managedclusterset_name <i>required</i>	Name of the managedclusterset that you want to query.	string

1.21.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.21.2.3.4. Tags

- cluster.open-cluster-management.io

1.21.2.4. Delete a managedclusterset

DELETE /cluster.open-cluster-management.io/v1beta2/managedclustersets/{managedclusterset_name}

1.21.2.4.1. Description

Delete a single managedclusterset.

1.21.2.4.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	namespace <i>required</i>	Namespace that you want to use, for example, default .	string
Path	managedclusterset_name <i>required</i>	Name of the managedclusterset that you want to delete.	string

1.21.2.4.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.21.2.4.4. Tags

- cluster.open-cluster-management.io

1.21.3. Definitions

1.21.3.1. ManagedClusterSet

Name	Description	Schema
apiVersion <i>required</i>	Versioned schema of the ManagedClusterSet .	string
kind <i>required</i>	String value that represents the REST resource.	string
metadata <i>required</i>	Metadata of the ManagedClusterSet .	object

Name	Description	Schema
<code>specrequired</code>	Specification of the ManagedClusterSet .	spec

1.22. KLUSTERLETCONFIG API (V1ALPHA1)

1.22.1. Overview

This documentation is for the `KlusterletConfig` resource for Red Hat Advanced Cluster Management for Kubernetes. The `KlusterletConfig` resource has four possible requests: create, query, delete, and update. `KlusterletConfig` contains configuration information about a `klusterlet`, such as **nodeSelector**, **tolerations**, and **pullSecret**. `KlusterletConfig` is a cluster-scoped resource and only works on `klusterlet` pods in the **open-cluster-management-agent** namespace. `KlusterletConfig` does not affect add-on deployment configurations.

1.22.1.1. Version information

Version : 2.10.0

1.22.1.2. URI scheme

BasePath : /kubernetes/apis

Schemes : HTTPS

1.22.1.3. Tags

- `config.open-cluster-management.io` : Create and manage `KlusterletConfig`

1.22.2. Paths

1.22.2.1. Query all `KlusterletConfig`

GET /config.open-cluster-management.io/v1alpha1/namespaces/{namespace}/klusterletconfigs

1.22.2.1.1. Description

Query your `KlusterletConfigs` for more details.

1.22.2.1.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string

1.22.2.1.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.22.2.1.4. Consumes

- **klusterletconfig/yaml**

1.22.2.1.5. Tags

- `config.open-cluster-management.io`

1.22.2.2. Create a KlusterletConfig

POST `/config.open-cluster-management.io/v1alpha1/namespaces/{namespace}/klusterletconfigs`

1.22.2.2.1. Description

Create a KlusterletConfig.

1.22.2.2.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Body	body <i>required</i>	Parameters describing the KlusterletConfig binding to be created.	KlusterletConfig

1.22.2.2.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content

HTTP Code	Description	Schema
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.22.2.2.4. Consumes

- **klusterletconfig/yaml**

1.22.2.2.5. Tags

- `config.open-cluster-management.io`

1.22.2.2.6. Example HTTP request

1.22.2.2.6.1. Request body

```
{
  "apiVersion": "apiextensions.k8s.io/v1",
  "kind": "CustomResourceDefinition",
  "metadata": {
    "annotations": {
      "controller-gen.kubebuilder.io/version": "v0.7.0"
    },
    "creationTimestamp": null,
    "name": "klusterletconfigs.config.open-cluster-management.io"
  },
  "spec": {
    "group": "config.open-cluster-management.io",
    "names": {
      "kind": "KlusterletConfig",
      "listKind": "KlusterletConfigList",
      "plural": "klusterletconfigs",
      "singular": "klusterletconfig"
    },
    "preserveUnknownFields": false,
    "scope": "Cluster",
    "versions": [
      {
        "name": "v1alpha1",
        "schema": {
          "openAPIV3Schema": {
            "description": "KlusterletConfig contains the configuration of a klusterlet including the upgrade strategy, config overrides, proxy configurations etc.",
            "properties": {
              "apiVersion": {
                "description": "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>,

```
"type": "string"
```

```
},
```

```
"kind": {
```

```
"description": "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>,

```
"type": "string",
```

```
"type": "string"
```

```
},
```

```
"metadata": {
```

```
"type": "object"
```

```
},
```

```
"spec": {
```

```
"description": "Spec defines the desired state of KlusterletConfig",
```

```
"properties": {
```

```
"hubKubeAPIServerProxyConfig": {
```

```
"description": "HubKubeAPIServerProxyConfig holds proxy settings for connections
```

between klusterlet/add-on agents on the managed cluster and the kube-apiserver on the hub cluster.

Empty means no proxy settings is available.",

```
"properties": {
```

```
"caBundle": {
```

```
"description": "CABundle is a CA certificate bundle to verify the proxy server. It will be
```

ignored if only HTTPProxy is set; And it is required when HTTPSProxy is set and self signed CA

certificate is used by the proxy server.",

```
"format": "byte",
```

```
"type": "string"
```

```
},
```

```
"httpProxy": {
```

```
"description": "HTTPProxy is the URL of the proxy for HTTP requests",
```

```
"type": "string"
```

```
},
```

```
"httpsProxy": {
```

```
"description": "HTTPSProxy is the URL of the proxy for HTTPS requests HTTPSProxy
```

will be chosen if both HTTPProxy and HTTPSProxy are set.",

```
"type": "string"
```

```
}
```

```
},
```

```
"type": "object"
```

```
},
```

```
"nodePlacement": {
```

```
"description": "NodePlacement enables explicit control over the scheduling of the agent
```

components. If the placement is nil, the placement is not specified, it will be omitted. If the placement

is an empty object, the placement will match all nodes and tolerate nothing.",

```
"properties": {
```

```
"nodeSelector": {
```

```
"additionalProperties": {
```

```
"type": "string"
```

```
},
```

```
"description": "NodeSelector defines which Nodes the Pods are scheduled on. The
```

default is an empty list.",

```
"type": "object"
```

```
},
```

```
"tolerations": {
```

```
"description": "Tolerations is attached by pods to tolerate any taint that matches the
```

triple <key,value,effect> using the matching operator <operator>. The default is an empty list.",

```

    "items": {
      "description": "The pod this Toleration is attached to tolerates any taint that matches
the triple <key,value,effect> using the matching operator <operator>.",
      "properties": {
        "effect": {
          "description": "Effect indicates the taint effect to match. Empty means match all
taint effects. When specified, allowed values are NoSchedule, PreferNoSchedule and NoExecute.",
          "type": "string"
        },
        "key": {
          "description": "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.",
          "type": "string"
        },
        "operator": {
          "description": "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.",
          "type": "string"
        },
        "tolerationSeconds": {
          "description": "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.",
          "format": "int64",
          "type": "integer"
        },
        "value": {
          "description": "Value is the taint value the toleration matches to. If the operator is
Exists, the value should be empty, otherwise just a regular string.",
          "type": "string"
        }
      },
      "type": "object"
    },
    "type": "array"
  }
},
"type": "object"
},
"pullSecret": {
  "description": "PullSecret is the name of image pull secret.",
  "properties": {
    "apiVersion": {
      "description": "API version of the referent.",
      "type": "string"
    },
    "fieldPath": {
      "description": "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 desiredState.manifest.containers[2].
For example, if the object reference is to a container within a pod, this would take on a value like:
'spec.containers{name}' (where 'name' refers to the name of the container that triggered the
event) or if no container name is specified 'spec.containers[2]' (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.",

```

    "type": "string"
  },
  "kind": {
    "description": "Kind of the referent. More info:
https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds",
    "type": "string"
  },
  "name": {
    "description": "Name of the referent. More info:
https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names",
    "type": "string"
  },
  "namespace": {
    "description": "Namespace of the referent. More info:
https://kubernetes.io/docs/concepts/overview/working-with-objects/namespaces/",
    "type": "string"
  },
  "resourceVersion": {
    "description": "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",
    "type": "string"
  },
  "uid": {
    "description": "UID of the referent. More info:
https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#uids",
    "type": "string"
  }
},
"type": "object"
},
"registries": {
  "description": "Registries includes the mirror and source registries. The source registry
will be replaced by the Mirror.",
  "items": {
    "properties": {
      "mirror": {
        "description": "Mirror is the mirrored registry of the Source. Will be ignored if Mirror is
empty.",
        "type": "string"
      },
      "source": {
        "description": "Source is the source registry. All image registries will be replaced by
Mirror if Source is empty.",
        "type": "string"
      }
    }
  },
  "required": [
    "mirror"
  ],
  "type": "object"
},
"type": "array"
}

```

```

    },
    "type": "object"
  },
  "status": {
    "description": "Status defines the observed state of KlusterletConfig",
    "type": "object"
  }
},
"type": "object"
}
},
"served": true,
"storage": true,
"subresources": {
  "status": {}
}
}
]
},
"status": {
  "acceptedNames": {
    "kind": "",
    "plural": ""
  },
  "conditions": [],
  "storedVersions": []
}
}
}

```

1.22.2.3. Query a single KlusterletConfig

GET /config.open-cluster-management.io/v1alpha1/namespaces/{namespace}/klusterletconfigs/{klusterletconfig_name}

1.22.2.3.1. Description

Query a single KlusterletConfig for more details.

1.22.2.3.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	klusterletconfig_name <i>required</i>	Name of the KlusterletConfig that you want to query.	string

1.22.2.3.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content
500	Internal service error	No Content
503	Service unavailable	No Content

1.22.2.3.4. Tags

- config.open-cluster-management.io

1.22.2.4. Delete a KlusterletConfig

DELETE /addon.open-cluster-management.io/v1alpha1/namespaces/{namespace}/klusterletconfigs/{klusterletconfig_name}

1.22.2.4.1. Description

Delete a single klusterletconfig.

1.22.2.4.2. Parameters

Type	Name	Description	Schema
Header	COOKIE <i>required</i>	Authorization: Bearer {ACCESS_TOKEN}; ACCESS_TOKEN is the user access token.	string
Path	klusterletconfig_name <i>required</i>	Name of the KlusterletConfig that you want to delete.	string

1.22.2.4.3. Responses

HTTP Code	Description	Schema
200	Success	No Content
403	Access forbidden	No Content
404	Resource not found	No Content

HTTP Code	Description	Schema
500	Internal service error	No Content
503	Service unavailable	No Content

1.22.2.4.4. Tags

- config.open-cluster-management.io

1.22.3. Definitions

1.22.3.1. KlusterletConfig

Name	Description	Schema
apiVersion <i>required</i>	Versioned schema of the KlusterletConfig.	string
kind <i>required</i>	String value that represents the REST resource.	string
metadata <i>required</i>	Metadata of the KlusterletConfig.	object
spec <i>required</i>	Specification of the KlusterletConfig.	spec

spec

Name	Description	Schema
registries <i>optional</i>	Includes the mirror and source registries. The source registry is replaced by the mirror.	registry
pullSecret <i>optional</i>	The name of image pull secret.	object
nodePlacement <i>required</i>	Enables scheduling control of add-on agents on the managed cluster.	nodePlacement

Name	Description	Schema
hubKubeAPIServerProxyConfig <i>required</i>	Contains proxy settings for the connections between the klusterlet or add-on agents on the managed cluster and the kube-apiserver on the hub cluster. Empty means no proxy setting is available.	kubeAPIServerProxyConfig

nodePlacement

Name	Description	Schema
nodeSelector <i>optional</i>	Define which nodes the pods are scheduled to run on. When the nodeSelector is empty, the nodeSelector selects all nodes.	map[string]string
tolerations <i>optional</i>	Applied to pods and used to schedule pods to any taint that matches the <key,value,effect> toleration using the matching operator (<operator>).	[]corev1.Toleration

kubeAPIServerProxyConfig

Name	Description	Schema
caBundle <i>optional</i>	A CA certificate bundle to verify the proxy server. The bundle is ignored if only HTTPProxy is set. The bundle is required when HTTPSProxy is set and a self signed CA certificate is used by the proxy server.	map[string]string
httpProxy <i>optional</i>	The URL of the proxy for HTTP requests	map[string]string
httpsProxy <i>optional</i>	The URL of the proxy for HTTPS requests. HTTPSProxy is chosen if both HTTPProxy and HTTPSProxy are set.	map[string]string

1.23. POLICY COMPLIANCE HISTORY (TECHNOLOGY PREVIEW)

1.23.1. Overview

The policy compliance history API is an optional technical preview feature if you want long-term storage of Red Hat Advanced Cluster Management for Kubernetes policy compliance events in a queryable format. You can use the API to get additional details such as the **spec** field to audit and troubleshoot your policy, and get compliance events when a policy is disabled or removed from a cluster. The policy compliance history API can also generate a comma-separated values (CSV) spreadsheet of policy compliance events to help you with auditing and troubleshooting.

1.23.1.1. Version information

Version: 2.10.0

1.23.2. API Endpoints

1.23.2.1. Listing policy compliance events

`/api/v1/compliance-events`

This lists all policy compliance events that you have access to by default. The response format is as follows and is sorted by **event.timestamp** in descending order by default:

```
{
  "data": [
    {
      "id": 2,
      "cluster": {
        "name": "cluster1",
        "cluster_id": "215ce184-8dee-4cab-b99b-1f8f29dff611"
      },
      "parent_policy": {
        "id": 3,
        "name": "configure-custom-app",
        "namespace": "policies",
        "categories": ["CM Configuration Management"],
        "controls": ["CM-2 Baseline Configuration"],
        "standards": ["NIST SP 800-53"]
      },
      "policy": {
        "apiGroup": "policy.open-cluster-management.io",
        "id": 2,
        "kind": "ConfigurationPolicy",
        "name": "configure-custom-app",
        "namespace": "",
        // Only shown with `?include_spec`
        "spec": {}
      },
      "event": {
        "compliance": "NonCompliant",
        "message": "configmaps [app-data] not found in namespace default",
        "timestamp": "2023-07-19T18:25:43.511Z",
        "metadata": {}
      }
    }
  ],
  {}
}
```

```

    "id": 1,
    "cluster": {
      "name": "cluster2",
      "cluster_id": "415ce234-8dee-4cab-b99b-1f8f29dff461"
    },
    "parent_policy": {
      "id": 3,
      "name": "configure-custom-app",
      "namespace": "policies",
      "categories": ["CM Configuration Management"],
      "controls": ["CM-2 Baseline Configuration"],
      "standards": ["NIST SP 800-53"]
    },
    "policy": {
      "apiGroup": "policy.open-cluster-management.io",
      "id": 4,
      "kind": "ConfigurationPolicy",
      "name": "configure-custom-app",
      "namespace": "",
      // Only shown with `?include_spec`
      "spec": {}
    },
    "event": {
      "compliance": "Compliant",
      "message": "configmaps [app-data] found as specified in namespace default",
      "timestamp": "2023-07-19T18:25:41.523Z",
      "metadata": {}
    }
  }
},
"metadata": {
  "page": 1,
  "pages": 7,
  "per_page": 20,
  "total": 123
}
}

```

The following optional query parameters are accepted. Notice that those without descriptions just filter on the field it references. The parameter value **null** represents no value. Additionally, multiple values can be specified with commas. For example, **?cluster.name=cluster1,cluster2** for "or" filtering. Commas can be escaped with `\`, if necessary.

Table 1.1. Table of query parameters

Query argument	Description
cluster.cluster_id	
cluster.name	
direction	The direction to sort by. This defaults to desc , which represents descending order. The supported values are asc and desc .

Query argument	Description
event.compliance	
event.message_includes	A filter for compliance messages that include the input string. Only a single value is supported.
event.message_like	A SQL LIKE filter for compliance messages. The percent sign (%) represents a wildcard of zero or more characters. The underscore sign (_) represents a wildcard of a single character. For example %configmaps [%my-configmap%] matches any configuration policy compliance message that refers to the config map my-configmap .
event.reported_by	
event.timestamp	
event.timestamp_after	An RFC 3339 timestamp to indicate only compliance events after this time should be shown. For example, 2024-02-28T16:32:57Z .
event.timestamp_before	An RFC 3339 timestamp to indicate only compliance events before this time should be shown. For example, 2024-02-28T16:32:57Z .
id	
include_spec	A flag to include the spec field of the policy in the return value. This is not set by default.
page	The page number in the query. This defaults to 1 .
parent_policy.categories	
parent_policy.controls	
parent_policy.id	
parent_policy.name	
parent_policy.namespace	
parent_policy.standards	
per_page	The number of compliance events returned per page. This defaults to 20 and cannot be larger than 100 .

Query argument	Description
policy.apiGroup	
policy.id	
policy.kind	
policy.name	
policy.namespace	
policy.severity	
sort	The field to sort by. This defaults to event.timestamp . All fields except policy.spec and event.metadata are sortable by using dot notation. To specify multiple sort options, use commas such as ?sort=policy.name,policy.namespace .

1.23.2.2. Selecting a single policy compliance event

/api/v1/compliance-events/<id>

You can select a single policy compliance event by specifying its database ID. For example, **/api/v1/compliance-events/1** selects the compliance event with the ID of 1. The format of the return value is the following JSON:

```
{
  "id": 1,
  "cluster": {
    "name": "cluster2",
    "cluster_id": "415ce234-8dee-4cab-b99b-1f8f29dff461"
  },
  "parent_policy": {
    "id": 2,
    "name": "etcd-encryption",
    "namespace": "policies",
    "categories": ["CM Configuration Management"],
    "controls": ["CM-2 Baseline Configuration"],
    "standards": ["NIST SP 800-53"]
  },
  "policy": {
    "apiGroup": "policy.open-cluster-management.io",
    "id": 4,
    "kind": "ConfigurationPolicy",
    "name": "etcd-encryption",
    "namespace": "",
    "spec": {}
  },
  "event": {
```

```

"compliance": "Compliant",
"message": "configmaps [app-data] found as specified in namespace default",
"timestamp": "2023-07-19T18:25:41.523Z",
"metadata": {}
}
}

```

1.23.2.3. Generating a spreadsheet

`/api/v1/reports/compliance-events`

You can generate a comma separated value (CSV) spreadsheet of compliance events for auditing and troubleshooting. It outputs the same and accepts the same query arguments as the `/api/v1/compliance-events` API endpoint. By default there is no **per_page** limitation set and there is no maximum for the **per_page** query argument. All the CSV headers are the same as the `/api/v1/compliance-events` API endpoint with underscores separating JSON objects. For example, the event timestamp has a header of **event_timestamp**.

1.23.3. Authentication and Authorization

The policy compliance history API utilizes the OpenShift instance used by the Red Hat Advanced Cluster Management hub cluster for authentication and authorization. You must provide your OpenShift token in the **Authorization** header of the HTTPS request.

To find your token, run the following command:

```
oc whoami --show-token
```

1.23.3.1. Viewing compliance events

To view the compliance events for a managed cluster, you need access to complete the **get verb** for the **ManagedCluster** object on the Red Hat Advanced Cluster Management hub cluster. For example, to view the compliance events of the **local-cluster** cluster, you might use the **open-cluster-management:view:local-cluster ClusterRole** or create your own resource as the following example:

```

apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRole
metadata:
  name: local-cluster-view
rules:
- apiGroups:
  - cluster.open-cluster-management.io
resources:
  - managedclusters
resourceNames:
  - local-cluster
verbs:
  - get

```

To verify your access to a particular managed cluster, use the **oc auth can-i** command. For example, to check if you have access to the **local-cluster** managed cluster, run the following command:

```
oc auth can-i get managedclusters.cluster.open-cluster-management.io/local-cluster
```

1.23.3.2. Recording a compliance event

Users or service accounts with **patch verb** access in the **policies.policy.open-cluster-management.io/status** resource in the corresponding managed cluster namespace have access to record policy compliance events. The **governance-policy-framework** pod on managed clusters utilizes the **open-cluster-management-compliance-history-api-recorder** service account in the corresponding managed cluster namespace on the Red Hat Advanced Cluster Management hub cluster to record compliance events. Each service account has the **open-cluster-management:compliance-history-api-recorder ClusterRole** bound to the managed cluster namespace. Restrict user and service account **patch** verb access to the policy **status** to ensure the trustworthiness of the data stored in the policy compliance history API.