



# Managed cluster

## Astra Automation

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# Managed cluster

## Managed cluster overview

The Managed Cluster API represents managed Kubernetes clusters.

## Create a new managed cluster

POST /accounts/{account\_id}/topology/v1/managedClusters

Indicates desired values for the Managed Cluster API resource to be created.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>example: <code>{{.Account}}</code></li></ul>

### Request Body

Indicates desired values for the Managed Cluster API resource to be created.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>"application/astra-managedCluster"</li></ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"><li>"1.0"</li><li>"1.1"</li><li>"1.2"</li><li>"1.3"</li><li>"1.4"</li><li>"1.5"</li><li>"1.6"</li><li>"1.7"</li></ul>

Name	Type	Required	Description
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
tridentManagedStateDesired	string	False	JSON string containing a value indicating the desired management state for Trident. Defined values are: <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
defaultStorageClass	string	False	JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not included, it has not yet been discovered.</li> </ul>
defaultBucketID	string	False	JSON string containing the ID of a bucket that will be used by default for persisting application metadata for a managed Neptune cluster. If no default bucket is specified on the cluster, the corresponding cloud default bucket will be used.

Name	Type	Required	Description
metadata	<a href="#">type_astra_metadata_update</a>	False	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>Conforms to the Astra Metadata Schema. If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

### Example request

```
{
  "type": "application/astra-managedCluster",
  "version": "1.7",
  "id": "241e9d94-eb8b-5c25-ba20-9292baac2396",
  "defaultStorageClass": "e280ff62-be35-4f31-a31b-a210a1ad1b33",
  "tridentManagedStateDesired": "managed"
}
```

### Response

Status: 201, Returns the newly created managedCluster resource in the JSON response body.

Name	Type	Required	Description
type	string	True	<p>Media type of the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>"application/astra-managedCluster"</li> </ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> <li>• "1.4"</li> <li>• "1.5"</li> <li>• "1.6"</li> <li>• "1.7"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster's state cannot be determined</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to be a <i>target</i> of application data management operations. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>

Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to the "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>



Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in a "running" state, is not under management, and is not eligible for management. The reason or reasons for this ineligibility are provided in the unready key's value</li> <li>• "deleting" - The cluster is in the process of being deleted</li> <li>• "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in a "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in a "running", "failed", or "removed" state and is under management</li> </ul>

Name	Type	Required	Description
managedStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The cluster's default storage class supports snapshots</li> <li>• "partial" - The cluster has only storage classes that do not support snapshots</li> <li>• "atRisk" - The cluster's default storage class does not support snapshots</li> </ul>
protectionStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	True	<p>JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedTimestamp	string	True	<p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".</li> </ul>
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
acpVersion	string	False	<p>JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>

Name	Type	Required	Description
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[type_astra_stateDetail]	False	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	True	<p>JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed, or it is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>

Name	Type	Required	Description
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "anthos" - The cluster is of type GKE Anthos</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	True	<p>JSON string containing the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	True	<p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not included, it has not yet been discovered.</li> </ul>

Name	Type	Required	Description
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	True	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>



Name	Type	Required	Description
privateRouteID	string	False	JSON string containing the locationID for private clusters. <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster.
defaultBucketID	string	False	JSON string containing the ID of a bucket that will be used by default for persisting application metadata for a managed Neptune cluster. If no default bucket is specified on the cluster, the corresponding cloud default bucket will be used.
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-managedCluster",
  "version": "1.7",
  "id": "241e9d94-eb8b-5c25-ba20-9292baac2396",
  "name": "GKE-22",
  "state": "running",
  "stateUnready": [],
  "managedState": "managed",
  "managedStateUnready": [],
  "managedTimestamp": "2020-08-06T12:24:52.256624Z",
  "protectionState": "full",
  "protectionStateDetails": [],
  "tridentVersion": "23.10.0",
  "acpVersion": "23.10.0",
  "tridentManagedState": "managed",
  "tridentManagedStateDesired": "managed",
  "tridentManagedStateDetails": [],
  "inUse": "false",
  "clusterType": "kubernetes",
  "clusterVersion": "1.91.1",
  "clusterVersionString": "1.19.1",
  "clusterCreationTimestamp": "2020-08-06T12:24:52.256624Z",
  "namespaces": [
    "kube-system",
    "kube-public",
    "my-app-1"
  ],
  "defaultStorageClass": "e280ff62-be35-4f31-a31b-a210a1ad1b33",
  "cloudID": "548bdc1f-f00e-4a23-a062-83265d224d46",
  "credentialID": "055e365a-2215-40de-aecb-a4070a7e6f1e",
  "location": "europe-west4",
  "isMultizonal": "false",
  "apiServiceID": "6bf33af2-872a-4553-a891-26b510c3edbe",
  "defaultBucketID": "a549b757-2be1-494f-aaafa-4ee399ca3f00",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with an idempotent value.",
  "status": "409"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

# Definitions

## See Definitions

### type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

### type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

### additionalDetails

### type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

### invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

### invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## List all managed clusters

GET /accounts/{account\_id}/topology/v1/managedClusters

Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
include	string	query	False	Indicates which fields should be returned when listing a collection. <p>URL examples: "include=id", "include=id,name"</p> <p>OpenAPI examples: "id"</p> <ul style="list-style-type: none"> <li>example: <code>id,name,managedState</code></li> </ul>



Name	Type	In	Required	Description
limit	string	query	False	<p>Indicates the maximum number of resources to return when listing a collection.</p> <p>URL examples: "limit=2"</p> <p>OpenAPI examples: "2"</p>
filter	string	query	False	<p>Indicates which fields should be matched in order to return a resource when listing a collection.</p> <p>Supported operators are:</p> <ul style="list-style-type: none"> <li>• eq - Equality</li> <li>• lt/gt - Less than/Greater than</li> <li>• lte/gte - Less than or equals to/Greater than or equals to</li> </ul> <p>URL example: "filter=field%20eq%20%27value%27"</p> <p>OpenAPI examples: "field eq 'value'"</p>

## Response

Status: 200, Returns a JSON array of all matching resources in the collection. If individual fields are specified in the request, the items JSON array will contain the fields requested for each matching resource in the order specified.

Name	Type	Required	Description
items	array[Any of: <a href="#">managedCluster_1.7_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	

### Example response

```
{
  "type": "application/astra-managedClusters",
  "version": "1.7",
  "items": [
    [
      "0f284377-e5dc-4dcd-bacd-3197f2b8a347",
      "GKE-21",
      "managed"
    ],
    [
      "04dc80fa-d1d8-4850-a49f-3b70d0ec1369",
      "GKE-22",
      "unmanaged"
    ]
  ],
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	

Name	Type	Required	Description
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

## Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

managedCluster\_1.7\_get\_response\_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-managedCluster"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> <li>• "1.4"</li> <li>• "1.5"</li> <li>• "1.6"</li> <li>• "1.7"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster's state cannot be determined</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to be a <i>target</i> of application data management operations. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>



Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to the "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in a "running" state, is not under management, and is not eligible for management. The reason or reasons for this ineligibility are provided in the unready key's value</li> <li>• "deleting" - The cluster is in the process of being deleted</li> <li>• "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in a "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in a "running", "failed", or "removed" state and is under management</li> </ul>

Name	Type	Required	Description
managedStateDetails	array[type_astra_stateDe tail]	False	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The cluster's default storage class supports snapshots</li> <li>• "partial" - The cluster has only storage classes that do not support snapshots</li> <li>• "atRisk" - The cluster's default storage class does not support snapshots</li> </ul>
protectionStateDetails	array[type_astra_stateDe tail]	True	<p>JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedTimestamp	string	True	<p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".</li> </ul>
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
acpVersion	string	False	<p>JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>

Name	Type	Required	Description
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	True	<p>JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed, or it is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>

Name	Type	Required	Description
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "anthos" - The cluster is of type GKE Anthos</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	True	<p>JSON string containing the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	True	<p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not included, it has not yet been discovered.</li> </ul>



Name	Type	Required	Description
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	True	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>

Name	Type	Required	Description
privateRouteID	string	False	JSON string containing the locationID for private clusters. <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster.
defaultBucketID	string	False	JSON string containing the ID of a bucket that will be used by default for persisting application metadata for a managed Neptune cluster. If no default bucket is specified on the cluster, the corresponding cloud default bucket will be used.
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

[type\\_astra\\_metadata\\_list](#)

Name	Type	Required	Description
continue	string	False	
count	number	False	
labels	array[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

## Retrieve a managed cluster

GET /accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}

Returns the stored Managed Cluster API resource in the JSON response body.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>example: <code>{{.Account}}</code></li> </ul>
managedCluster_id	string	path	True	ID of the managedCluster collection to list

### Response

Status: 200, Returns the stored Managed Cluster API resource in the JSON response body.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "application/astra-managedCluster"</li> </ul>
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> <li>• "1.4"</li> <li>• "1.5"</li> <li>• "1.6"</li> <li>• "1.7"</li> </ul>
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	True	JSON string containing a name for the cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster's state cannot be determined</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to be a <i>target</i> of application data management operations. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>

Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
stateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to the "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>

Name	Type	Required	Description
managedState	string	True	<p>JSON string containing a value indicating the management state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in a "running" state, is not under management, and is not eligible for management. The reason or reasons for this ineligibility are provided in the unready key's value</li> <li>• "deleting" - The cluster is in the process of being deleted</li> <li>• "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in a "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in a "running", "failed", or "removed" state and is under management</li> </ul>

Name	Type	Required	Description
managedStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
protectionState	string	True	<p>JSON string containing a value indicating the protection state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The cluster's default storage class supports snapshots</li> <li>• "partial" - The cluster has only storage classes that do not support snapshots</li> <li>• "atRisk" - The cluster's default storage class does not support snapshots</li> </ul>
protectionStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	True	<p>JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>



Name	Type	Required	Description
managedStateUnready	array[string]	True	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedTimestamp	string	True	<p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".</li> </ul>
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
acpVersion	string	False	<p>JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>

Name	Type	Required	Description
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	True	<p>JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed, or it is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>

Name	Type	Required	Description
clusterType	string	True	<p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "anthos" - The cluster is of type GKE Anthos</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	True	<p>JSON string containing the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	True	<p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not included, it has not yet been discovered.</li> </ul>

Name	Type	Required	Description
cloudID	string	True	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	True	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>

Name	Type	Required	Description
privateRouteID	string	False	JSON string containing the locationID for private clusters. <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster.
defaultBucketID	string	False	JSON string containing the ID of a bucket that will be used by default for persisting application metadata for a managed Neptune cluster. If no default bucket is specified on the cluster, the corresponding cloud default bucket will be used.
metadata	<a href="#">type_astra_metadata_update</a>	True	Client and service-specified metadata associated with the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example response

```
{
  "type": "application/astra-managedCluster",
  "version": "1.7",
  "id": "241e9d94-eb8b-5c25-ba20-9292baac2396",
  "name": "GKE-22",
  "state": "running",
  "stateUnready": [],
  "managedState": "managed",
  "managedStateUnready": [],
  "managedTimestamp": "2020-08-06T12:24:52.256624Z",
  "protectionState": "full",
  "protectionStateDetails": [],
  "tridentVersion": "23.10.0",
  "acpVersion": "23.10.0",
  "tridentManagedState": "managed",
  "tridentManagedStateDesired": "managed",
  "tridentManagedStateDetails": [],
  "inUse": "true",
  "clusterType": "kubernetes",
  "clusterVersion": "1.91.1",
  "clusterVersionString": "1.19.1",
  "clusterCreationTimestamp": "2020-08-06T12:24:52.256624Z",
  "namespaces": [
    "kube-system",
    "kube-public",
    "my-app-1"
  ],
  "defaultStorageClass": "e280ff62-be35-4f31-a31b-a210a1ad1b33",
  "cloudID": "548bdc1f-f00e-4a23-a062-83265d224d46",
  "credentialID": "055e365a-2215-40de-aecb-a4070a7e6f1e",
  "location": "europe-west4",
  "isMultizonal": "false",
  "apiServiceID": "6bf33af2-872a-4553-a891-26b510c3edbe",
  "defaultBucketID": "a549b757-2be1-494f-aaafa-4ee399ca3f00",
  "metadata": {
    "labels": [],
    "creationTimestamp": "2022-10-06T20:58:16.305662Z",
    "modificationTimestamp": "2022-10-06T20:58:16.305662Z",
    "createdBy": "8f84cf09-8036-51e4-b579-bd30cb07b269"
  }
}
```



## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

### Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	

Name	Type	Required	Description
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

### Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

# Modify a managed cluster

PUT /accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

## Side Effects

- When defaultStorageClass is changed, the Kubernetes default storage class will be updated.

## Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"><li>• example: <code>{{.Account}}</code></li></ul>
managedCluster_id	string	path	True	ID of the managedCluster collection to list

## Request Body

Replaces the entire stored resource with the supplied JSON request body while preserving key values that are not user-modifiable.

## Side Effects

- When defaultStorageClass is changed, the Kubernetes default storage class will be updated.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-managedCluster"</li></ul>

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> <li>• "1.0"</li> <li>• "1.1"</li> <li>• "1.2"</li> <li>• "1.3"</li> <li>• "1.4"</li> <li>• "1.5"</li> <li>• "1.6"</li> <li>• "1.7"</li> </ul>
id	string	False	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the UUIDv4 Schema</li> </ul>
name	string	False	JSON string containing a name for the cluster. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> <li>• This string is internally validated to prevent XSS, Unicode, directory traversal, and SQL-injection attacks.</li> </ul>

Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled for discovery</li> <li>• "discovering" - The cluster is in the process of being discovered</li> <li>• "provisioning" - The cluster is in the process of being provisioned</li> <li>• "running" - The cluster is running normally</li> <li>• "failed" - The cluster is in a permanent failure state</li> <li>• "removed" - The cluster is not currently accessible</li> <li>• "unknown" - The cluster's state cannot be determined</li> </ul>
restoreTargetSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to be a <i>target</i> of application data management operations. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible target for app data management operations.</li> <li>• "false" - Cluster is <i>not</i> an eligible target for app data management operations.</li> </ul>

Name	Type	Required	Description
snapshotSupported	string	False	<p>JSON string containing a value indicating the managed cluster's ability to perform application data management backup-like operations. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - Cluster is an eligible to perform app data management operations.</li> <li>• "false" - Cluster is <i>not</i> eligible to perform app data management operations.</li> </ul>
stateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why the cluster is unable to transition to "running" state, when there are issues while in "running" state, or why it has transitioned to the "failed" or "removed" state. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>



Name	Type	Required	Description
managedState	string	False	<p>JSON string containing a value indicating the management state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The cluster is scheduled to be discovered or added</li> <li>• "ineligible" - The cluster is in a "running" state, is not under management, and is not eligible for management. The reason or reasons for this ineligibility are provided in the unready key's value</li> <li>• "deleting" - The cluster is in the process of being deleted</li> <li>• "unmanaged" - The cluster is in a "running" or "failed" state, is not under management, and is eligible for management</li> <li>• "managing" - The cluster is in a "running" state and is in the process of being managed</li> <li>• "managed" - The cluster is in a "running", "failed", or "removed" state and is under management</li> </ul>

Name	Type	Required	Description
managedStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>JSON array of JSON objects which lists additional details about the current state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>
protectionState	string	False	<p>JSON string containing a value indicating the protection state of the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "full" - The cluster's default storage class supports snapshots</li> <li>• "partial" - The cluster has only storage classes that do not support snapshots</li> <li>• "atRisk" - The cluster's default storage class does not support snapshots</li> </ul>
protectionStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>JSON array of JSON objects that lists additional details about the current protection state, including why the current state was reached. If no details are available, this array will be empty. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
managedStateUnready	array[string]	False	<p>JSON array of JSON strings, each indicating a reason why the cluster is ineligible to be managed. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 127</li> </ul>
managedTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was brought under management. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema This key is only returned when a cluster has a managedState of "managed".</li> </ul>
tridentVersion	string	False	<p>JSON string containing the version of Trident installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>
acpVersion	string	False	<p>JSON string containing the version of Astra Control Provisioner installed on the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Software Version Schema</li> </ul>

Name	Type	Required	Description
tridentManagedState	string	False	<p>JSON string containing one of a set of enumerated values indicating the management state of Trident on this cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Trident instance on the cluster is managed by Astra</li> <li>• "unmanaged" - Trident instance on the cluster is not managed by Astra</li> </ul>
tridentManagedStateDesired	string	False	<p>JSON string containing a value indicating the desired management state for Trident. Defined values are:</p> <ul style="list-style-type: none"> <li>• "managed" - Manage Trident on this cluster</li> <li>• "unmanaged" - Do not manage Trident on this cluster</li> </ul>
tridentManagedStateDetails	array[ <a href="#">type_astra_stateDetail</a> ]	False	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "managed" or "unmanaged". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum Items: 0</li> </ul>

Name	Type	Required	Description
tridentManagedStateAllowed	array[string]	False	<p>States that can be requested in a given tridentManagedState. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> <li>• "managed": "managed"</li> <li>• "unmanaged": "unmanaged"</li> </ul>
inUse	string	False	<p>JSON string containing a value indicating whether the cluster has any managed applications and therefore cannot be deleted. Defined values are:</p> <ul style="list-style-type: none"> <li>• "false" - The cluster is not managed, or it is managed but has no managed applications associated with it</li> <li>• "true" - The cluster is managed and has managed applications associated with it</li> </ul>
accHost	string	False	<p>JSON string that indicates that this cluster hosts the instance of Astra Control Center that is currently being accessed. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - This cluster is hosting the instance of Astra Control Center that is currently being accessed.</li> </ul>

Name	Type	Required	Description
clusterType	string	False	<p>JSON string containing a value indicating the type of cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• "gke" - Kubernetes hosted on Google Kubernetes Engine</li> <li>• "aks" - Kubernetes hosted on Microsoft Azure Kubernetes Service</li> <li>• "eks" - Kubernetes hosted on Amazon Elastic Kubernetes Service</li> <li>• "rke" - The cluster is of type Rancher</li> <li>• "tanzu" -The cluster is of type Tanzu Kubernetes Grid</li> <li>• "openshift" - The cluster is of type OpenShift</li> <li>• "anthos" - The cluster is of type GKE Anthos</li> <li>• "kubernetes" - The cluster is generic Kubernetes</li> </ul>
clusterVersion	string	False	<p>JSON string containing the semantic versioning representation of the cluster environment. For Kubernetes clusters, this is the Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>

Name	Type	Required	Description
clusterVersionString	string	False	<p>JSON string containing a value indicating the extended versioning information for the cluster environment. For Kubernetes clusters, this is the full Kubernetes version. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 31</li> </ul>
clusterCreationTimestamp	string	False	<p>JSON string containing the timestamp indicating when the cluster was originally created. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the ISO-8601 Date Time Schema</li> </ul>
namespaces	array[string]	False	<p>JSON array of JSON strings, each indicating a namespace within the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 253</li> </ul>
defaultStorageClass	string	False	<p>JSON string containing a storage class ID that corresponds to the default storage class, as set in Kubernetes. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema If not included, it has not yet been discovered.</li> </ul>

Name	Type	Required	Description
cloudID	string	False	<p>JSON string containing a value indicating the ID of the cloud the cluster is running on. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
credentialID	string	False	<p>JSON string containing a value indicating the ID of the credential that contains the kubeconfig file for the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
location	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating the cloud-specific location of the cluster. Defined values are:</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 63</li> </ul>
isMultizonal	string	False	<p>JSON string containing a value provided by the cloud the cluster is running on, indicating whether the cluster spans two or more availability zones. Defined values are:</p> <ul style="list-style-type: none"> <li>• "true" - The cluster spans two or more availability zones</li> <li>• "false" - The cluster is wholly located within a single availability zone</li> </ul>



Name	Type	Required	Description
privateRouteID	string	False	<p>JSON string containing the locationID for private clusters.</p> <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 255</li> </ul>
apiServiceID	string	False	<p>JSON string containing the UUID from the Kubernetes (k8s) api service object. Used to uniquely identify a cluster.</p>
defaultBucketID	string	False	<p>JSON string containing the ID of a bucket that will be used by default for persisting application metadata for a managed Neptune cluster. If no default bucket is specified on the cluster, the corresponding cloud default bucket will be used.</p>
metadata	type_astra_metadata_update	False	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.</li> </ul>

## Example request

```
{
  "type": "application/astra-managedCluster",
  "version": "1.7",
  "defaultStorageClass": "0b146cda-7fc1-4f32-804c-8130a38a7e1c"
}
```

## Response

Status: 204, Indicates if the managedCluster resource was updated.

## Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

## Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```

### Response

Status: 409, Conflict

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidFields	array[invalidFields]	False	List of invalid request body fields

## Example response

```
{
  "type": "https://astra.netapp.io/problems/10",
  "title": "JSON resource conflict",
  "detail": "The request body JSON contains a field that conflicts with
an idempotent value.",
  "status": "409"
}
```

## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

### Definitions

## See Definitions

additionalDetails

type\_astra\_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	<a href="#">additionalDetails</a>	False	

type\_astra\_label

Name	Type	Required	Description
name	string	True	
value	string	True	

type\_astra\_metadata\_update

Client and service-specified metadata associated with the resource. Defined values are:

- Conforms to the Astra Metadata Schema If not specified on create, a metadata object will be created with no labels. If not specified on update, the metadata object's labels, creationTimestamp and createdBy, will be preserved without modification.

Name	Type	Required	Description
labels	array[ <a href="#">type_astra_label</a> ]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

invalidFields

Name	Type	Required	Description
name	string	True	Name of the invalid request body field
reason	string	True	Reason why the request body field is invalid

## Delete a managed cluster

DELETE /accounts/{account\_id}/topology/v1/managedClusters/{managedCluster\_id}

Removes the specified Managed Cluster API resource.

### Side Effects

- Internal data structures are cleaned up.

### Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource <ul style="list-style-type: none"> <li>• example: <code>{{.Account}}</code></li> </ul>
managedCluster_id	string	path	True	ID of the managedCluster collection to list

### Response

Status: 204, Indicates if the managedCluster resource was deleted.

### Response

Status: 401, Unauthorized

Name	Type	Required	Description
type	string	True	
title	string	True	

Name	Type	Required	Description
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/3",
  "title": "Missing bearer token",
  "detail": "The request is missing the required bearer token.",
  "status": "401"
}
```

### Response

Status: 400, Bad request

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	
invalidParams	array[invalidParams]	False	List of invalid query parameters

### Example response

```
{
  "type": "https://astra.netapp.io/problems/5",
  "title": "Invalid query parameters",
  "detail": "The supplied query parameters are invalid.",
  "status": "400"
}
```



## Response

Status: 403, Forbidden

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

### Example response

```
{
  "type": "https://astra.netapp.io/problems/11",
  "title": "Operation not permitted",
  "detail": "The requested operation isn't permitted.",
  "status": "403"
}
```

## Error

Status: 404, Not found

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
status	string	True	
correlationID	string	False	

## Example error response

```
{
  "type": "https://astra.netapp.io/problems/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

## Definitions

### See Definitions

invalidParams

Name	Type	Required	Description
name	string	True	Name of the invalid query parameter
reason	string	True	Reason why the query parameter is invalid

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