



Storage class

Astra Automation

NetApp
June 28, 2024

목차

Storage class	1
Storage class overview	1
List the storage classes for a cloud	1
Retrieve a storage class for a cloud	12
List the storage classes for a cluster	20
Retrieve a storage class for a cluster	31
List the storage classes for a managed cluster	39
Retrieve a storage class for a managed cluster	50

Storage class

Storage class overview

The Storage Class API provides CRUD (Create-Read-Update-Delete) access to storageClass resources in order to describe storage classes known to a given cluster.

List the storage classes for a cloud

GET

```
/accounts/{account_id}/topology/v1/clouds/{cloud_id}/clusters/{cluster_id}/storageClasses
```

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">example: <code>{{.Account}}</code>
cloud_id	string	path	True	ID of the containing cloud resource
cluster_id	string	path	True	ID of the containing cluster resource
include	string	query	False	Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none">example: <code>id,name</code>

Name	Type	In	Required	Description
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2"

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: storageClass_1.1_get_response_body , array[]]	True	
metadata	type_astra_metadata_list	True	

Example response

```
{
  "type": "application/astra-storageClasses",
  "version": "1.1",
  "items": [
    [
      "e280ff62-be35-4f31-a31b-a210a1ad1b33",
      "my-storage-class"
    ],
    [
      "e8507dad-d33f-44b3-9c15-ec55ba6f6473",
      "standard"
    ]
  ],
  "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	False	
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	False	
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	False	
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	False	
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

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

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

storageClass_1.1_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-storageClass"
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1"
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema

Name	Type	Required	Description
name	string	True	<p>JSON string containing a value indicating the name of the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
provisioner	string	True	<p>JSON string containing a value indicating the provisioner associated with the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
available	string	True	<p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management. Defined values are:</p> <ul style="list-style-type: none"> • "available" - The storage class is available for use • "eligible" - The storage class is eligible to be used by the cluster when it is under management • "ineligible" - The storage class is ineligible to be used by the cluster when it is under management

Name	Type	Required	Description
allowVolumeExpansion	string	True	<p>JSON string indicating whether the storage class allows volume expansion. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class allows volume expansion • "false" - The storage class does not allow volume expansion • "unavailable" - It is unknown whether the storage class allows volume expansion
reclaimPolicy	string	True	<p>JSON string containing a cloud-specific value indicating the retention policy of the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
volumeBindingMode	string	True	<p>JSON string containing a cloud-specific value indicating the binding mode for the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
isDefault	string	False	<p>JSON string indicating whether the storage class contains the default annotation. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class contains the default annotation

Name	Type	Required	Description
maxSnapshotCount	number	False	JSON number indicating how many snapshots are supported. This information is attached to storage classes provided by NetApp.
maxBackupCount	number	False	JSON number indicating how many backups are supported. This information is attached to storage classes provided by NetApp.
price	string	False	JSON string indicating the currency units per unit of time for the storage class. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63
currency	string	False	JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
performance	number	False	JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.

Name	Type	Required	Description
resilience	string	False	<p>JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> "regional" - The volume will become unavailable if a given region becomes unavailable "multisite" - The volume will continue to be available if a given region becomes unavailable
metadata	type_astra_metadata	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema

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 storage class for a cloud

GET

/accounts/{account_id}/topology/v1/clouds/{cloud_id}/clusters/{cluster_id}/storageClasses/{storageClass_id}

Returns the stored Storage Class API resource in the JSON response body.

Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource • example: {{.Account}}
cloud_id	string	path	True	ID of the containing cloud resource
cluster_id	string	path	True	ID of the containing cluster resource
storageClass_id	string	path	True	ID of the storageClass collection to list

Response

Status: 200, Returns the stored Storage Class 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"> • "application/astra-storageClass"
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1"
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a value indicating the name of the storage class. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
provisioner	string	True	JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
available	string	True	<p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management. Defined values are:</p> <ul style="list-style-type: none"> • "available" - The storage class is available for use • "eligible" - The storage class is eligible to be used by the cluster when it is under management • "ineligible" - The storage class is ineligible to be used by the cluster when it is under management
allowVolumeExpansion	string	True	<p>JSON string indicating whether the storage class allows volume expansion. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class allows volume expansion • "false" - The storage class does not allow volume expansion • "unavailable" - It is unknown whether the storage class allows volume expansion
reclaimPolicy	string	True	<p>JSON string containing a cloud-specific value indicating the retention policy of the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
volumeBindingMode	string	True	JSON string containing a cloud-specific value indicating the binding mode for the storage class. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
isDefault	string	False	JSON string indicating whether the storage class contains the default annotation. Defined values are: <ul style="list-style-type: none"> • "true" - The storage class contains the default annotation
maxSnapshotCount	number	False	JSON number indicating how many snapshots are supported. This information is attached to storage classes provided by NetApp.
maxBackupCount	number	False	JSON number indicating how many backups are supported. This information is attached to storage classes provided by NetApp.
price	string	False	JSON string indicating the currency units per unit of time for the storage class. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
currency	string	False	<p>JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
performance	number	False	<p>JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.</p>
resilience	string	False	<p>JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • "regional" - The volume will become unavailable if a given region becomes unavailable • "multisite" - The volume will continue to be available if a given region becomes unavailable
metadata	type_astra_metadata	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema

Example response

```
{
  "type": "application/astra-storageClass",
  "version": "1.1",
  "id": "ad9be22b-53c7-540c-8647-76afe2878952",
  "name": "my-storage-class",
  "provisioner": "csi.trident.netapp.io",
  "available": "eligible",
  "allowVolumeExpansion": "true",
  "reclaimPolicy": "recycle",
  "volumeBindingMode": "immediate",
  "isDefault": "true",
  "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	False	
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	False	
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	False	
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	False	
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

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

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
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

List the storage classes for a cluster

GET /accounts/{account_id}/topology/v1/clusters/{cluster_id}/storageClasses

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"> example: <code>{{.Account}}</code>
cluster_id	string	path	True	ID of the containing cluster resource
include	string	query	False	Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" <ul style="list-style-type: none"> example: <code>id,name</code>
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2"

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: storageClass_1.1_get_response_body , array[]]	True	

Name	Type	Required	Description
metadata	type_astra_metadata_list	True	

Example response

```
{
  "type": "application/astra-storageClasses",
  "version": "1.1",
  "items": [
    [
      "e280ff62-be35-4f31-a31b-a210a1ad1b33",
      "my-storage-class"
    ],
    [
      "e8507dad-d33f-44b3-9c15-ec55ba6f6473",
      "standard"
    ]
  ],
  "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	False	
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	False	
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	False	
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	False	
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

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

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

storageClass_1.1_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-storageClass"
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1"
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema

Name	Type	Required	Description
name	string	True	<p>JSON string containing a value indicating the name of the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
provisioner	string	True	<p>JSON string containing a value indicating the provisioner associated with the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
available	string	True	<p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management. Defined values are:</p> <ul style="list-style-type: none"> • "available" - The storage class is available for use • "eligible" - The storage class is eligible to be used by the cluster when it is under management • "ineligible" - The storage class is ineligible to be used by the cluster when it is under management

Name	Type	Required	Description
allowVolumeExpansion	string	True	<p>JSON string indicating whether the storage class allows volume expansion. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class allows volume expansion • "false" - The storage class does not allow volume expansion • "unavailable" - It is unknown whether the storage class allows volume expansion
reclaimPolicy	string	True	<p>JSON string containing a cloud-specific value indicating the retention policy of the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
volumeBindingMode	string	True	<p>JSON string containing a cloud-specific value indicating the binding mode for the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
isDefault	string	False	<p>JSON string indicating whether the storage class contains the default annotation. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class contains the default annotation

Name	Type	Required	Description
maxSnapshotCount	number	False	JSON number indicating how many snapshots are supported. This information is attached to storage classes provided by NetApp.
maxBackupCount	number	False	JSON number indicating how many backups are supported. This information is attached to storage classes provided by NetApp.
price	string	False	JSON string indicating the currency units per unit of time for the storage class. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63
currency	string	False	JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
performance	number	False	JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.

Name	Type	Required	Description
resilience	string	False	<p>JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • "regional" - The volume will become unavailable if a given region becomes unavailable • "multisite" - The volume will continue to be available if a given region becomes unavailable
metadata	type_astra_metadata	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema

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 storage class for a cluster

GET

/accounts/{account_id}/topology/v1/clusters/{cluster_id}/storageClasses/{storageClass_id}

Returns the stored Storage Class 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"> example: <code>{{.Account}}</code>
cluster_id	string	path	True	ID of the containing cluster resource
storageClass_id	string	path	True	ID of the storageClass collection to list

Response

Status: 200, Returns the stored Storage Class 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"> "application/astra-storageClass"

Name	Type	Required	Description
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1"
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a value indicating the name of the storage class. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
provisioner	string	True	JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
available	string	True	<p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management. Defined values are:</p> <ul style="list-style-type: none"> • "available" - The storage class is available for use • "eligible" - The storage class is eligible to be used by the cluster when it is under management • "ineligible" - The storage class is ineligible to be used by the cluster when it is under management
allowVolumeExpansion	string	True	<p>JSON string indicating whether the storage class allows volume expansion. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class allows volume expansion • "false" - The storage class does not allow volume expansion • "unavailable" - It is unknown whether the storage class allows volume expansion
reclaimPolicy	string	True	<p>JSON string containing a cloud-specific value indicating the retention policy of the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
volumeBindingMode	string	True	JSON string containing a cloud-specific value indicating the binding mode for the storage class. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
isDefault	string	False	JSON string indicating whether the storage class contains the default annotation. Defined values are: <ul style="list-style-type: none"> • "true" - The storage class contains the default annotation
maxSnapshotCount	number	False	JSON number indicating how many snapshots are supported. This information is attached to storage classes provided by NetApp.
maxBackupCount	number	False	JSON number indicating how many backups are supported. This information is attached to storage classes provided by NetApp.
price	string	False	JSON string indicating the currency units per unit of time for the storage class. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
currency	string	False	<p>JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
performance	number	False	<p>JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.</p>
resilience	string	False	<p>JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • "regional" - The volume will become unavailable if a given region becomes unavailable • "multisite" - The volume will continue to be available if a given region becomes unavailable
metadata	type_astra_metadata	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema

Example response

```
{
  "type": "application/astra-storageClass",
  "version": "1.1",
  "id": "ad9be22b-53c7-540c-8647-76afe2878952",
  "name": "my-storage-class",
  "provisioner": "csi.trident.netapp.io",
  "available": "eligible",
  "allowVolumeExpansion": "true",
  "reclaimPolicy": "recycle",
  "volumeBindingMode": "immediate",
  "isDefault": "true",
  "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	False	
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	False	
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	False	
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	False	
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

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

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
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

List the storage classes for a managed cluster

GET

/accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}/storageClasses

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 • example: {{.Account}}
managedCluster_id	string	path	True	ID of the containing managedCluster resource
include	string	query	False	Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" • example: id,name
limit	string	query	False	Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2"

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: storageClass_1.1_get_response_body , array[]]	True	
metadata	type_astra_metadata_list	True	

Example response

```
{
  "type": "application/astra-storageClasses",
  "version": "1.1",
  "items": [
    [
      "e280ff62-be35-4f31-a31b-a210a1ad1b33",
      "my-storage-class"
    ],
    [
      "e8507dad-d33f-44b3-9c15-ec55ba6f6473",
      "standard"
    ]
  ],
  "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	False	
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	False	
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	False	
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	False	
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

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

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
modifiedBy	string	False	

storageClass_1.1_get_response_body

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none">• "application/astra-storageClass"
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none">• "1.0"• "1.1"
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none">• Conforms to the UUIDv4 Schema

Name	Type	Required	Description
name	string	True	<p>JSON string containing a value indicating the name of the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
provisioner	string	True	<p>JSON string containing a value indicating the provisioner associated with the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
available	string	True	<p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management. Defined values are:</p> <ul style="list-style-type: none"> • "available" - The storage class is available for use • "eligible" - The storage class is eligible to be used by the cluster when it is under management • "ineligible" - The storage class is ineligible to be used by the cluster when it is under management

Name	Type	Required	Description
allowVolumeExpansion	string	True	<p>JSON string indicating whether the storage class allows volume expansion. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class allows volume expansion • "false" - The storage class does not allow volume expansion • "unavailable" - It is unknown whether the storage class allows volume expansion
reclaimPolicy	string	True	<p>JSON string containing a cloud-specific value indicating the retention policy of the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
volumeBindingMode	string	True	<p>JSON string containing a cloud-specific value indicating the binding mode for the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
isDefault	string	False	<p>JSON string indicating whether the storage class contains the default annotation. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class contains the default annotation

Name	Type	Required	Description
maxSnapshotCount	number	False	JSON number indicating how many snapshots are supported. This information is attached to storage classes provided by NetApp.
maxBackupCount	number	False	JSON number indicating how many backups are supported. This information is attached to storage classes provided by NetApp.
price	string	False	JSON string indicating the currency units per unit of time for the storage class. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63
currency	string	False	JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
performance	number	False	JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.

Name	Type	Required	Description
resilience	string	False	<p>JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> "regional" - The volume will become unavailable if a given region becomes unavailable "multisite" - The volume will continue to be available if a given region becomes unavailable
metadata	type_astra_metadata	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> Conforms to the Astra Metadata Schema

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 storage class for a managed cluster

GET

/accounts/{account_id}/topology/v1/managedClusters/{managedCluster_id}/storageClasses/{storageClass_id}

Returns the stored Storage Class 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"> example: <code>{{.Account}}</code>
managedCluster_id	string	path	True	ID of the containing managedCluster resource
storageClass_id	string	path	True	ID of the storageClass collection to list

Response

Status: 200, Returns the stored Storage Class 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"> • "application/astra-storageClass"
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1"
id	string	True	Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema
name	string	True	JSON string containing a value indicating the name of the storage class. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
provisioner	string	True	JSON string containing a value indicating the provisioner associated with the storage class. Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
available	string	True	<p>JSON string indicating whether the storage class is available for the cluster or is eligible to be added to the cluster when under management. Defined values are:</p> <ul style="list-style-type: none"> • "available" - The storage class is available for use • "eligible" - The storage class is eligible to be used by the cluster when it is under management • "ineligible" - The storage class is ineligible to be used by the cluster when it is under management
allowVolumeExpansion	string	True	<p>JSON string indicating whether the storage class allows volume expansion. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class allows volume expansion • "false" - The storage class does not allow volume expansion • "unavailable" - It is unknown whether the storage class allows volume expansion
reclaimPolicy	string	True	<p>JSON string containing a cloud-specific value indicating the retention policy of the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255

Name	Type	Required	Description
volumeBindingMode	string	True	<p>JSON string containing a cloud-specific value indicating the binding mode for the storage class. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
isDefault	string	False	<p>JSON string indicating whether the storage class contains the default annotation. Defined values are:</p> <ul style="list-style-type: none"> • "true" - The storage class contains the default annotation
maxSnapshotCount	number	False	<p>JSON number indicating how many snapshots are supported. This information is attached to storage classes provided by NetApp.</p>
maxBackupCount	number	False	<p>JSON number indicating how many backups are supported. This information is attached to storage classes provided by NetApp.</p>
price	string	False	<p>JSON string indicating the currency units per unit of time for the storage class. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 63

Name	Type	Required	Description
currency	string	False	<p>JSON string indicating the ISO 4217 three-letter code for the currency that the price is measured in. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
performance	number	False	<p>JSON number indicating the performance service-level objective (SLO) in MBps. This information is attached to storage classes provided by NetApp.</p>
resilience	string	False	<p>JSON string indicating the resilience configuration for the storage. This information is attached to storage classes provided by NetApp. Defined values are:</p> <ul style="list-style-type: none"> • "regional" - The volume will become unavailable if a given region becomes unavailable • "multisite" - The volume will continue to be available if a given region becomes unavailable
metadata	type_astra_metadata	True	<p>Client and service-specified metadata associated with the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Metadata Schema

Example response

```
{
  "type": "application/astra-storageClass",
  "version": "1.1",
  "id": "ad9be22b-53c7-540c-8647-76afe2878952",
  "name": "my-storage-class",
  "provisioner": "csi.trident.netapp.io",
  "available": "eligible",
  "allowVolumeExpansion": "true",
  "reclaimPolicy": "recycle",
  "volumeBindingMode": "immediate",
  "isDefault": "true",
  "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	False	
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	False	
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	False	
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	False	
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

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

- Conforms to the Astra Metadata Schema

Name	Type	Required	Description
labels	array[type_astra_label]	True	
creationTimestamp	string	True	
modificationTimestamp	string	True	
createdBy	string	True	
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

저작권 정보

Copyright © 2024 NetApp, Inc. All Rights Reserved. 미국에서 인쇄된 본 문서의 어떠한 부분도 저작권 소유자의 사전 서면 승인 없이는 어떠한 형식이나 수단(복사, 녹음, 녹화 또는 전자 검색 시스템에 저장하는 것을 비롯한 그래픽, 전자적 또는 기계적 방법)으로도 복제될 수 없습니다.

NetApp이 저작권을 가진 자료에 있는 소프트웨어에는 아래의 라이선스와 고지사항이 적용됩니다.

본 소프트웨어는 NetApp에 의해 '있는 그대로' 제공되며 상품성 및 특정 목적에의 적합성에 대한 명시적 또는 묵시적 보증을 포함하여(이에 제한되지 않음) 어떠한 보증도 하지 않습니다. NetApp은 대체품 또는 대체 서비스의 조달, 사용 불능, 데이터 손실, 이익 손실, 영업 중단을 포함하여(이에 국한되지 않음), 이 소프트웨어의 사용으로 인해 발생하는 모든 직접 및 간접 손해, 우발적 손해, 특별 손해, 징벌적 손해, 결과적 손해의 발생에 대하여 그 발생 이유, 책임론, 계약 여부, 엄격한 책임, 불법 행위(과실 또는 그렇지 않은 경우)와 관계없이 어떠한 책임도 지지 않으며, 이와 같은 손실의 발생 가능성이 통지되었다 하더라도 마찬가지입니다.

NetApp은 본 문서에 설명된 제품을 언제든지 예고 없이 변경할 권리를 보유합니다. NetApp은 NetApp의 명시적인 서면 동의를 받은 경우를 제외하고 본 문서에 설명된 제품을 사용하여 발생하는 어떠한 문제에도 책임을 지지 않습니다. 본 제품의 사용 또는 구매의 경우 NetApp에서는 어떠한 특허권, 상표권 또는 기타 지적 재산권이 적용되는 라이선스도 제공하지 않습니다.

본 설명서에 설명된 제품은 하나 이상의 미국 특허, 해외 특허 또는 출원 중인 특허로 보호됩니다.

제한적 권리 표시: 정부에 의한 사용, 복제 또는 공개에는 DFARS 252.227-7013(2014년 2월) 및 FAR 52.227-19(2007년 12월)의 기술 데이터-비상업적 품목에 대한 권리(Rights in Technical Data -Noncommercial Items) 조항의 하위 조항 (b)(3)에 설명된 제한사항이 적용됩니다.

여기에 포함된 데이터는 상업용 제품 및/또는 상업용 서비스(FAR 2.101에 정의)에 해당하며 NetApp, Inc.의 독점 자산입니다. 본 계약에 따라 제공되는 모든 NetApp 기술 데이터 및 컴퓨터 소프트웨어는 본질적으로 상업용이며 개인 비용만으로 개발되었습니다. 미국 정부는 데이터가 제공된 미국 계약과 관련하여 해당 계약을 지원하는 데에만 데이터에 대한 전 세계적으로 비독점적이고 양도할 수 없으며 재사용이 불가능하며 취소 불가능한 라이선스를 제한적으로 가집니다. 여기에 제공된 경우를 제외하고 NetApp, Inc.의 사전 서면 승인 없이는 이 데이터를 사용, 공개, 재생산, 수정, 수행 또는 표시할 수 없습니다. 미국 국방부에 대한 정부 라이선스는 DFARS 조항 252.227-7015(b)(2014년 2월)에 명시된 권한으로 제한됩니다.

상표 정보

NETAPP, NETAPP 로고 및 <http://www.netapp.com/TM>에 나열된 마크는 NetApp, Inc.의 상표입니다. 기타 회사 및 제품 이름은 해당 소유자의 상표일 수 있습니다.