



# Bucket

## Astra Automation

NetApp  
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# Tabla de contenidos

- Bucket ..... 1
  - Bucket overview ..... 1
  - Create a new bucket ..... 1
  - List all buckets ..... 13
  - Retrieve a bucket ..... 24
  - Modify a bucket ..... 34
  - Delete a bucket ..... 44

# Bucket

## Bucket overview

The Bucket API provides CRUD (Create-Read-Update-Delete) access to buckets used to store application backups in Astra.

## Create a new bucket

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

Indicates the desired values for the Bucket 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: {{.Account}}</li></ul>

### Request Body

Indicates the desired values for the Bucket 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-bucket"</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></ul>

Name	Type	Required	Description
name	string	False	JSON string containing a user-assigned name for the bucket. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 256</li> </ul>
credentialID	string	True	JSON string containing the identifier of the credentials used to access the bucket. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
provider	string	True	JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are: <ul style="list-style-type: none"> <li>• "ontap-s3"</li> <li>• "storagegrid-s3"</li> <li>• "generic-s3"</li> <li>• "gcp"</li> <li>• "azure"</li> <li>• "aws"</li> </ul>
bucketParameters	<a href="#">bucketParameters</a>	True	JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket differ per provider.

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-bucket",
  "version": "1.2",
  "name": "Test Bucket",
  "credentialID": "d5b3854c-38de-42c6-9269-b5c052aba76f",
  "provider": "gcp",
  "bucketParameters": {
    "gcp": {
      "bucketName": "bucketName"
    }
  }
}
```

### Response

Status: 201, Returns the newly created bucket 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-bucket"</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> </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 user-assigned name for the bucket. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 256</li> </ul>
credentialID	string	True	JSON string containing the identifier of the credentials used to access the bucket. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the bucket. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The bucket is scheduled for discovery</li> <li>• "available" - The bucket is available for use</li> <li>• "failed" - The bucket is in a permanent failure state</li> <li>• "removed" - The bucket is not currently accessible</li> <li>• "unknown" - The bucket state cannot be determined</li> </ul>
stateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "removed" or "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
provider	string	True	<p>JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> <li>• "ontap-s3"</li> <li>• "storagegrid-s3"</li> <li>• "generic-s3"</li> <li>• "gcp"</li> <li>• "azure"</li> <li>• "aws"</li> </ul>

Name	Type	Required	Description
bucketParameters	<a href="#">bucketParameters</a>	True	JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket differ per provider.
metadata	<a href="#">type_astra_metadata_update</a>	True	<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 response

```
{
  "type": "application/astra-bucket",
  "version": "1.2",
  "id": "9b296ce0-c545-5022-acfa-1980c5aeea97",
  "name": "Test Bucket",
  "credentialID": "8f039324-7795-40bf-a5ca-4442580f7ab0",
  "state": "available",
  "stateDetails": [],
  "provider": "gcp",
  "bucketParameters": {
    "gcp": {
      "bucketName": "bucketName"
    }
  },
  "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	
invalidFields	array[invalidFields]	False	List of invalid request body fields

### 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	False	
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	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

### s3

JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).

Name	Type	Required	Description
serverURL	string	True	JSON string containing a URL to the base path for the bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 1023</li></ul>
bucketName	string	True	JSON string containing the name of the S3 bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

### gcp

JSON object that provides Google Cloud protocol parameters.

Name	Type	Required	Description
bucketName	string	True	JSON string containing the name of the backing Google Cloud bucket name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

### azure

JSON object that provides Azure protocol parameters.

Name	Type	Required	Description
storageAccount	string	True	JSON string containing the Azure storage account name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>
bucketName	string	True	JSON string containing the name of the backing Azure blob name. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 0</li> <li>• Maximum length: 63</li> </ul>

#### bucketParameters

JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket differ per provider.

Name	Type	Required	Description
s3	s3	False	JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).
gcp	gcp	False	JSON object that provides Google Cloud protocol parameters.
azure	azure	False	JSON object that provides Azure protocol parameters.

#### 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[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

#### type\_astra\_stateDetails

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

#### 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 buckets

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

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}}

## 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="#">bucket_1.2_get_response_body</a> , array[]]	True	
metadata	<a href="#">type_astra_metadata_list</a>	True	



## Example response

```
{
  "type": "application/astra-buckets",
  "version": "1.2",
  "items": [
    [
      "4c753e39-25e9-4b36-a8de-69f168aa59cd",
      "Test Bucket",
      "gcp"
    ],
    [
      "d8fd585d-6429-4c08-a308-af193a88eac7",
      "Local",
      "ontap-s3"
    ]
  ],
  "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\_stateDetails

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

### s3

JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).

Name	Type	Required	Description
serverURL	string	True	JSON string containing a URL to the base path for the bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 1023</li></ul>
bucketName	string	True	JSON string containing the name of the S3 bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

### gcp

JSON object that provides Google Cloud protocol parameters.

Name	Type	Required	Description
bucketName	string	True	JSON string containing the name of the backing Google Cloud bucket name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

### azure

JSON object that provides Azure protocol parameters.

Name	Type	Required	Description
storageAccount	string	True	JSON string containing the Azure storage account name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>
bucketName	string	True	JSON string containing the name of the backing Azure blob name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

#### bucketParameters

JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket differ per provider.

Name	Type	Required	Description
s3	s3	False	JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).
gcp	gcp	False	JSON object that provides Google Cloud protocol parameters.
azure	azure	False	JSON object that provides Azure protocol parameters.

#### 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[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

bucket\_1.2\_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-bucket"</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></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 user-assigned name for the bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 256</li></ul>

Name	Type	Required	Description
credentialID	string	True	<p>JSON string containing the identifier of the credentials used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>
state	string	True	<p>JSON string containing a value indicating the operational state of the bucket. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The bucket is scheduled for discovery</li> <li>• "available" - The bucket is available for use</li> <li>• "failed" - The bucket is in a permanent failure state</li> <li>• "removed" - The bucket is not currently accessible</li> <li>• "unknown" - The bucket state cannot be determined</li> </ul>
stateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "removed" or "failed". 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
provider	string	True	JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are: <ul style="list-style-type: none"> <li>"ontap-s3"</li> <li>"storagegrid-s3"</li> <li>"generic-s3"</li> <li>"gcp"</li> <li>"azure"</li> <li>"aws"</li> </ul>
bucketParameters	<a href="#">bucketParameters</a>	True	JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket differ per provider.
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	

Name	Type	Required	Description
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 bucket

GET /accounts/{account\_id}/topology/v1/buckets/{bucket\_id}

Returns the stored Bucket 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}}
bucket_id	string	path	True	ID of the bucket collection to list

### Response

Status: 200, Returns the stored Bucket 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-bucket"</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> </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 user-assigned name for the bucket. Defined values are: <ul style="list-style-type: none"> <li>• Minimum length: 1</li> <li>• Maximum length: 256</li> </ul>
credentialID	string	True	JSON string containing the identifier of the credentials used to access the bucket. Defined values are: <ul style="list-style-type: none"> <li>• Conforms to the Astra Identifier Schema</li> </ul>

Name	Type	Required	Description
state	string	True	<p>JSON string containing a value indicating the operational state of the bucket. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The bucket is scheduled for discovery</li> <li>• "available" - The bucket is available for use</li> <li>• "failed" - The bucket is in a permanent failure state</li> <li>• "removed" - The bucket is not currently accessible</li> <li>• "unknown" - The bucket state cannot be determined</li> </ul>
stateDetails	array[type_astra_stateDetails]	True	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "removed" or "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
provider	string	True	<p>JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> <li>• "ontap-s3"</li> <li>• "storagegrid-s3"</li> <li>• "generic-s3"</li> <li>• "gcp"</li> <li>• "azure"</li> <li>• "aws"</li> </ul>

Name	Type	Required	Description
bucketParameters	<a href="#">bucketParameters</a>	True	JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket differ per provider.
metadata	<a href="#">type_astra_metadata_update</a>	True	<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 response

```
{
  "type": "application/astra-bucket",
  "version": "1.2",
  "id": "9b296ce0-c545-5022-acfa-1980c5aeea97",
  "name": "Test Bucket",
  "credentialID": "8f039324-7795-40bf-a5ca-4442580f7ab0",
  "state": "available",
  "stateDetails": [],
  "provider": "gcp",
  "bucketParameters": {
    "gcp": {
      "bucketName": "bucketName"
    }
  },
  "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\_stateDetails

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

### s3

JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).

Name	Type	Required	Description
serverURL	string	True	JSON string containing a URL to the base path for the bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 1023</li></ul>
bucketName	string	True	JSON string containing the name of the S3 bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

### gcp

JSON object that provides Google Cloud protocol parameters.

Name	Type	Required	Description
bucketName	string	True	JSON string containing the name of the backing Google Cloud bucket name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

### azure

JSON object that provides Azure protocol parameters.

Name	Type	Required	Description
storageAccount	string	True	JSON string containing the Azure storage account name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>
bucketName	string	True	JSON string containing the name of the backing Azure blob name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

#### bucketParameters

JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket differ per provider.

Name	Type	Required	Description
s3	s3	False	JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).
gcp	gcp	False	JSON object that provides Google Cloud protocol parameters.
azure	azure	False	JSON object that provides Azure protocol parameters.

#### 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[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

## Modify a bucket

PUT /accounts/{account\_id}/topology/v1/buckets/{bucket\_id}

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

### 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>
bucket_id	string	path	True	ID of the bucket 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.

Name	Type	Required	Description
type	string	True	Media type of the resource. Defined values are: <ul style="list-style-type: none"><li>• "application/astra-bucket"</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></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 user-assigned name for the bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 1</li><li>• Maximum length: 256</li></ul>
credentialID	string	False	JSON string containing the identifier of the credentials used to access the bucket. Defined values are: <ul style="list-style-type: none"><li>• Conforms to the Astra Identifier Schema</li></ul>

Name	Type	Required	Description
state	string	False	<p>JSON string containing a value indicating the operational state of the bucket. Defined values are:</p> <ul style="list-style-type: none"> <li>• "pending" - The bucket is scheduled for discovery</li> <li>• "available" - The bucket is available for use</li> <li>• "failed" - The bucket is in a permanent failure state</li> <li>• "removed" - The bucket is not currently accessible</li> <li>• "unknown" - The bucket state cannot be determined</li> </ul>
stateDetails	array[type_astra_stateDetails]	False	<p>JSON array of JSON objects that lists additional details about why "state" transitioned to "removed" or "failed". If no details are available, this array will be empty.</p> <ul style="list-style-type: none"> <li>• Minimum items: 0</li> </ul>
provider	string	False	<p>JSON string indicating the bucket protocol that can be used to access the bucket. Defined values are:</p> <ul style="list-style-type: none"> <li>• "ontap-s3"</li> <li>• "storagegrid-s3"</li> <li>• "generic-s3"</li> <li>• "gcp"</li> <li>• "azure"</li> <li>• "aws"</li> </ul>

Name	Type	Required	Description
bucketParameters	<a href="#">bucketParameters</a>	False	JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket differ per provider.
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-bucket",
  "version": "1.2",
  "name": "New Bucket Name"
}
```

### Response

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

### 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	
invalidFields	array[invalidFields]	False	List of invalid request body fields



### 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	False	
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	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/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

# Definitions

## See Definitions

### type\_astra\_stateDetails

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

### s3

JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).

Name	Type	Required	Description
serverURL	string	False	JSON string containing a URL to the base path for the bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 1023</li></ul>
bucketName	string	False	JSON string containing the name of the S3 bucket. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

### gcp

JSON object that provides Google Cloud protocol parameters.

Name	Type	Required	Description
bucketName	string	False	JSON string containing the name of the backing Google Cloud bucket name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

### azure

JSON object that provides Azure protocol parameters.

Name	Type	Required	Description
storageAccount	string	False	JSON string containing the Azure storage account name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>
bucketName	string	False	JSON string containing the name of the backing Azure blob name. Defined values are: <ul style="list-style-type: none"><li>• Minimum length: 0</li><li>• Maximum length: 63</li></ul>

bucketParameters

JSON object that provides bucket provider-specific information required to access the bucket. The specific values in this bucket differ per provider.

Name	Type	Required	Description
s3	s3	False	JSON object that provides Simple Storage Service (S3) protocol parameters. (Use this object for all S3 type providers).
gcp	gcp	False	JSON object that provides Google Cloud protocol parameters.
azure	azure	False	JSON object that provides Azure protocol parameters.

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[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

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 bucket

DELETE /accounts/{account\_id}/topology/v1/buckets/{bucket\_id}

Removes the specified Bucket 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  • example: {{.Account}}
bucket_id	string	path	True	ID of the bucket collection to list

## Response

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

## 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/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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