



AppMirror

Astra Automation

NetApp
August 11, 2025

This PDF was generated from https://docs.netapp.com/it-it/astra-automation/reference/appmirror_overview.html on August 11, 2025. Always check docs.netapp.com for the latest.

Sommario

AppMirror	1
AppMirror overview	1
Create a new AppMirror resource	1
Parameters	1
Request Body	1
Response	5
Response	17
Response	18
Response	18
Response	19
Error	19
Definitions	20
List all AppMirror resources	24
Parameters	24
Response	25
Response	31
Response	32
Response	32
Error	33
Definitions	34
Retrieve an AppMirror resource	49
Parameters	49
Response	49
Response	60
Response	61
Response	62
Error	62
Definitions	63
Modify an AppMirror resource	66
Parameters	67
Request Body	67
Response	75
Response	75
Response	76
Response	77
Response	77
Error	78
Definitions	79
Delete an AppMirror resource	83
Parameters	83
Response	83
Response	83
Response	84

Response	85
Error	85
Definitions	86
Create a new AppMirror resource for an app	86
Parameters	86
Request Body	86
Response	90
Response	102
Response	103
Response	103
Response	104
Error	104
Definitions	105
List the AppMirror resources for an app	109
Parameters	109
Response	110
Response	116
Response	117
Response	117
Error	118
Definitions	119
Retrieve an AppMirror resource for an app	134
Parameters	134
Response	134
Response	145
Response	146
Response	147
Error	147
Definitions	148
Modify an AppMirror resource for an app	151
Parameters	152
Request Body	152
Response	160
Response	160
Response	161
Response	162
Response	162
Error	163
Definitions	164
Delete an AppMirror resource for an app	168
Parameters	168
Response	168
Response	168
Response	169
Response	170

Error	170
Definitions	171

AppMirror

AppMirror overview

The AppMirror API enables management of AppMirror relationships.

Create a new AppMirror resource

POST /accounts/{account_id}/k8s/v1/appMirrors

Indicates the desired values for the AppMirror API resource to be created.

Parameters

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

Request Body

Indicates the desired values for the AppMirror API resource to be created.

Name	Type	Required	Description
type	string	True	<p>Media type of the resource. Defined values are:</p> <ul style="list-style-type: none">"application/astra-appMirror"
version	string	True	<p>Version of the resource. Defined values are:</p> <ul style="list-style-type: none">"1.0""1.1"

Name	Type	Required	Description
sourceAppID	string	True	<p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
namespaceMapping	array[namespaceMapping]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2
stateDesired	string	True	<p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.

Name	Type	Required	Description
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"> • 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.

Example request

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
  "stateDesired": "established"
}
```

Response

Status: 201, Returns the newly created appMirror 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"> • "application/astra-appMirror"

Name	Type	Required	Description
version	string	True	<p>Version of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "1.0" • "1.1"
id	string	True	<p>Globally unique identifier of the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema
sourceAppID	string	True	<p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
sourceClusterID	string	True	<p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
namespaceMapping	array[namespaceMapping]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
state	string	True	<p>The state of the relationship. Defined values are:</p> <ul style="list-style-type: none"> • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted.
stateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted":

Name	Type	Required	Description
stateDesired	string	True	<p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.
stateAllowed	array[string]	False	<p>States that can be requested in a given state. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted"
stateDetails	array[type_astra_stateDetail]	True	<p>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"> • Minimum Items: 0

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer. Defined values are:</p> <ul style="list-style-type: none"> • "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried. • "idle" - There is currently no transfer in progress.
transferStateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "transferring": "idle" • "idle": "transferring"
transferStateDetails	array[type_astra_stateDetail]	False	<p>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"> • Minimum Items: 0

Name	Type	Required	Description
healthState	string	True	<p>Health state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification
healthStateTransitions	array[type_astra_stateTransition]	True	<p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning"

Name	Type	Required	Description
healthStateDetails	array[type_astra_stateDetail]	True	<p>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"> • Minimum Items: 0
metadata	type_astra_metadata_update	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 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.

Example response

```
{  
  "type": "application/astra-appMirror",  
  "version": "1.1",  
  "id": "512c8dac-b7d4-5be9-836e-eee672965866a",  
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",  
  "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",  
  "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",  
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",  
  "state": "establishing",  
  "stateTransitions": [  
    {  
      "from": "establishing",  
      "to": [  
        "established",  
        "deleting"  
      ]  
    },  
    {  
      "from": "established",  
      "to": [  
        "failingOver",  
        "deleting"  
      ]  
    },  
    {  
      "from": "failingOver",  
      "to": [  
        "failedOver",  
        "deleting"  
      ]  
    },  
    {  
      "from": "failedOver",  
      "to": [  
        "establishing",  
        "deleting"  
      ]  
    },  
    {  
      "from": "deleting",  
      "to": [  
        "deleted"  
      ]  
    }  
  ]  
}
```

```
],
  "stateDesired": "established",
  "stateAllowed": [
    "deleted"
  ],
  "stateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/3",
      "title": "AppMirror is being established",
      "detail": "The AppMirror relationship is in the process of being established."
    }
  ],
  "healthState": "warning",
  "healthStateTransitions": [
    {
      "from": "indeterminate",
      "to": [
        "normal",
        "warning",
        "critical"
      ]
    },
    {
      "from": "normal",
      "to": [
        "indeterminate",
        "warning",
        "critical"
      ]
    },
    {
      "from": "warning",
      "to": [
        "indeterminate",
        "normal",
        "critical"
      ]
    },
    {
      "from": "critical",
      "to": [
        "indeterminate",
        "normal",
        "warning"
      ]
    }
  ]
}
```

```

        }
    ],
    "healthStateDetails": [
        {
            "type": "https://astra.netapp.io/stateDetails/4",
            "title": "AppMirror not yet established",
            "detail": "The AppMirror relationship is not protecting the app data yet because the relationship is in the process of being established."
        }
    ],
    "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	
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	True	
status	string	True	
correlationID	string	False	

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/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

namespaceMapping

Name	Type	Required	Description
clusterID	string	False	<p>Identifier of the cluster for which the namespaces are specified. Defined values are:</p> <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema
namespaces	array[string]	False	<p>List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are:</p> <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Conforms to the DNS 1123 Label Schema
role	string	False	<p>The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are:</p> <ul style="list-style-type: none">• "source"• "destination"

storageClasses

Name	Type	Required	Description
clusterID	string	False	<p>Identifier of the cluster for which the storage class is specified. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
storageClassName	string	False	<p>Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
role	string	False	<p>The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are:</p> <ul style="list-style-type: none"> • "source" • "destination"

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_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type_astra_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	additionalDetails	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 AppMirror resources

GET /accounts/{account_id}/k8s/v1/appMirrors

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

Name	Type	In	Required	Description
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"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <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: appMirror_1.1_get_response_body , array[]]]	True	
metadata	type_astra_metadata_list	True	

Example response

```
{  
  "type": "application/astra-appMirrors",  
  "version": "1.1",  
  "items": [  
    {  
      "type": "application/astra-appMirror",  
      "version": "1.1",  
      "id": "f1c98c2e-6391-42d3-8b21-3e75dac048a3",  
      "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",  
      "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",  
      "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",  
      "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",  
      "namespaceMapping": [  
        {  
          "clusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",  
          "namespaces": [  
            "ns1-src",  
            "ns2-src"  
          ]  
        },  
        {  
          "clusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",  
          "namespaces": [  
            "ns1-dest",  
            "ns2-dest"  
          ]  
        }  
      ],  
      "state": "established",  
      "stateTransitions": [  
        {  
          "from": "establishing",  
          "to": [  
            "established",  
            "deleting"  
          ]  
        },  
        {  
          "from": "established",  
          "to": [  
            "failingOver",  
            "deleting"  
          ]  
        },  
        {  
          "from": "deleting",  
          "to": [  
            "failingOver",  
            "deleting"  
          ]  
        },  
        {  
          "from": "failingOver",  
          "to": [  
            "deleting",  
            "recovered"  
          ]  
        }  
      ]  
    }  
  ]  
}
```

```

{
  "from": "failingOver",
  "to": [
    "failedOver",
    "deleting"
  ]
},
{
  "from": "failedOver",
  "to": [
    "establishing",
    "deleting"
  ]
},
{
  "from": "deleting",
  "to": [
    "deleted"
  ]
}
],
"stateDesired": "established",
"stateAllowed": [
  "failedOver",
  "deleted"
],
"stateDetails": [
  {
    "type": "https://astra.netapp.io/stateDetails/1",
    "title": "AppMirror relationship established",
    "detail": "The AppMirror relationship has been successfully
established."
  }
],
"healthState": "normal",
"healthStateTransitions": [
  {
    "from": "indeterminate",
    "to": [
      "normal",
      "warning",
      "critical"
    ]
  },
  {
    "from": "normal",
    "to": [
      "warning"
    ]
  }
]
}

```

```

        "to": [
            "indeterminate",
            "warning",
            "critical"
        ]
    },
    {
        "from": "warning",
        "to": [
            "indeterminate",
            "normal",
            "critical"
        ]
    },
    {
        "from": "critical",
        "to": [
            "indeterminate",
            "normal",
            "warning"
        ]
    }
],
"healthStateDetails": [
    {
        "type": "https://astra.netapp.io/stateDetails/2",
        "title": "SnapMirror syncing successfully",
        "detail": "All SnapMirror relationships are synchronizing as
expected."
    }
],
"metadata": {
    "labels": [],
    "creationTimestamp": "2020-08-06T12:24:52.256624Z",
    "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
    "createdBy": "11c0cf1-4f27-4ef7-a21c-cb452fc5c9aa"
},
{
    "type": "application/astra-appMirror",
    "version": "1.1",
    "id": "114633f0-5b59-4bd7-adce-a9ba4423a1bd",
    "sourceAppID": "eaf8b854-211d-460a-ac18-d093d8e2ac70",
    "sourceClusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "destinationAppID": "e829c5e0-750f-44ad-a684-aee85be2c2bb",
    "destinationClusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
}

```

```
"namespaceMapping": [
  {
    "clusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "namespaces": [
      "app-namespace"
    ],
    "role": "source"
  },
  {
    "clusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "namespaces": [
      "destination-app-namespace"
    ],
    "role": "destination"
  }
],
"storageClasses": [
  {
    "storageClassName": "destination-sc",
    "clusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "role": "destination"
  }
],
"state": "established",
"stateTransitions": [
  {
    "from": "establishing",
    "to": [
      "established",
      "deleting"
    ]
  },
  {
    "from": "established",
    "to": [
      "failingOver",
      "deleting"
    ]
  },
  {
    "from": "failingOver",
    "to": [
      "failedOver",
      "deleting"
    ]
  }
],
```

```

    {
      "from": "failedOver",
      "to": [
        "establishing",
        "deleting"
      ]
    }
  ],
  "stateDesired": "established",
  "stateAllowed": [
    "failedOver",
    "deleted"
  ],
  "stateDetails": [],
  "transferState": "idle",
  "transferStateTransitions": [
    {
      "from": "transferring",
      "to": [
        "idle"
      ]
    },
    {
      "from": "idle",
      "to": [
        "transferring"
      ]
    }
  ],
  "transferStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/24",
      "title": "Snapshot replication completed",
      "detail": "A snapshot was replicated to the destination.",
      "additionalDetails": {
        "completionTime": "2023-07-06T22:46:39Z",
        "snapshotID": "ae60820d-e963-4eab-8bb3-9159e9f012f0",
        "startTime": "2023-07-06T22:46:08Z"
      }
    }
  ],
  "healthState": "normal",
  "healthStateTransitions": [],
  "healthStateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/24",
      "title": "Snapshot replication completed",
      "detail": "A snapshot was replicated to the destination."
    }
  ]
}

```

```

        "title": "Snapshot replication completed",
        "detail": "A snapshot was replicated to the destination.",
        "additionalDetails": {
            "completionTime": "2023-07-06T22:46:39Z",
            "snapshotID": "ae60820d-e963-4eab-8bb3-9159e9f012f0",
            "startTime": "2023-07-06T22:46:08Z"
        }
    },
    "metadata": {
        "labels": [],
        "creationTimestamp": "2023-07-06T22:45:24Z",
        "modificationTimestamp": "2023-07-06T22:45:24Z",
        "createdBy": "cc420827-f968-4da7-9e72-df8a0fd52f94"
    }
},
],
"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	
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

namespaceMapping

Name	Type	Required	Description
clusterID	string	False	<p>Identifier of the cluster for which the namespaces are specified. Defined values are:</p> <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema
namespaces	array[string]	False	<p>List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are:</p> <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Conforms to the DNS 1123 Label Schema
role	string	False	<p>The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are:</p> <ul style="list-style-type: none">• "source"• "destination"

storageClasses

Name	Type	Required	Description
clusterID	string	False	<p>Identifier of the cluster for which the storage class is specified. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
storageClassName	string	False	<p>Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
role	string	False	<p>The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are:</p> <ul style="list-style-type: none"> • "source" • "destination"

type_astra_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type_astra_stateDetail

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

Name	Type	Required	Description
additionalDetails	additionalDetails	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[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

appMirror_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-appMirror"
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1"

Name	Type	Required	Description
id	string	True	<p>Globally unique identifier of the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema
sourceAppID	string	True	<p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
sourceClusterID	string	True	<p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
namespaceMapping	array[namespaceMapping]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
state	string	True	<p>The state of the relationship. Defined values are:</p> <ul style="list-style-type: none"> • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted.

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted":
stateDesired	string	True	<p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.

Name	Type	Required	Description
stateAllowed	array[string]	False	<p>States that can be requested in a given state. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted"
stateDetails	array[type_astra_stateDetail]	True	<p>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"> • Minimum Items: 0

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer. Defined values are:</p> <ul style="list-style-type: none"> • "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried. • "idle" - There is currently no transfer in progress.
transferStateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "transferring": "idle" • "idle": "transferring"
transferStateDetails	array[type_astra_stateDetail]	False	<p>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"> • Minimum Items: 0

Name	Type	Required	Description
healthState	string	True	<p>Health state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransition]	True	<p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning"
healthStateDetails	array[type_astra_stateDetail]	True	<p>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"> • Minimum Items: 0

Name	Type	Required	Description
metadata	type_astra_metadata_update	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. 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.

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 an AppMirror resource

GET /accounts/{account_id}/k8s/v1/appMirrors/{appMirror_id}

Returns the stored AppMirror API resource in the JSON response body.

Parameters

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

Response

Status: 200, Returns the stored AppMirror API 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">"application/astra-appMirror"
version	string	True	<p>Version of the resource. Defined values are:</p> <ul style="list-style-type: none">"1.0""1.1"
id	string	True	<p>Globally unique identifier of the resource. Defined values are:</p> <ul style="list-style-type: none">Conforms to the UUIDv4 Schema

Name	Type	Required	Description
sourceAppID	string	True	<p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
sourceClusterID	string	True	<p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
namespaceMapping	array[namespaceMapping]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
state	string	True	<p>The state of the relationship. Defined values are:</p> <ul style="list-style-type: none"> • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted.
stateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted":

Name	Type	Required	Description
stateDesired	string	True	<p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.
stateAllowed	array[string]	False	<p>States that can be requested in a given state. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted"
stateDetails	array[type_astra_stateDetail]	True	<p>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"> • Minimum Items: 0

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer. Defined values are:</p> <ul style="list-style-type: none"> • "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried. • "idle" - There is currently no transfer in progress.
transferStateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "transferring": "idle" • "idle": "transferring"
transferStateDetails	array[type_astra_stateDetail]	False	<p>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"> • Minimum Items: 0

Name	Type	Required	Description
healthState	string	True	<p>Health state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification
healthStateTransitions	array[type_astra_stateTransition]	True	<p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning"

Name	Type	Required	Description
healthStateDetails	array[type_astra_stateDetail]	True	<p>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"> • Minimum Items: 0
metadata	type_astra_metadata_update	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 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.

Example response

```
{  
  "type": "application/astra-appMirror",  
  "version": "1.1",  
  "id": "512c8dac-b7d4-5be9-836e-eee672965866a",  
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",  
  "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",  
  "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",  
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",  
  "namespaceMapping": [  
    {  
      "clusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",  
      "namespaces": [  
        "ns1-src",  
        "ns2-src"  
      ]  
    },  
    {  
      "clusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",  
      "namespaces": [  
        "ns1-dest",  
        "ns2-dest"  
      ]  
    }  
  ],  
  "state": "established",  
  "stateTransitions": [  
    {  
      "from": "establishing",  
      "to": [  
        "established",  
        "deleting"  
      ]  
    },  
    {  
      "from": "established",  
      "to": [  
        "failingOver",  
        "deleting"  
      ]  
    },  
    {  
      "from": "failingOver",  
      "to": [  
        "failedOver",  
        "deleting"  
      ]  
    }  
  ]  
}
```

```

        "deleting"
    ],
},
{
    "from": "failedOver",
    "to": [
        "establishing",
        "deleting"
    ],
},
{
    "from": "deleting",
    "to": [
        "deleted"
    ]
}
],
"stateDesired": "established",
"stateAllowed": [
    "failedOver",
    "deleted"
],
"stateDetails": [
{
    "type": "https://astra.netapp.io/stateDetails/1",
    "title": "AppMirror relationship established",
    "detail": "The AppMirror relationship has been successfully
established."
},
],
"healthState": "normal",
"healthStateTransitions": [
{
    "from": "indeterminate",
    "to": [
        "normal",
        "warning",
        "critical"
    ]
},
{
    "from": "normal",
    "to": [
        "indeterminate",
        "warning",
        "critical"
    ]
}
]
}

```

```

        ],
    },
    {
        "from": "warning",
        "to": [
            "indeterminate",
            "normal",
            "critical"
        ],
    },
    {
        "from": "critical",
        "to": [
            "indeterminate",
            "normal",
            "warning"
        ],
    }
],
"healthStateDetails": [
{
    "type": "https://astra.netapp.io/stateDetails/2",
    "title": "SnapMirror syncing successfully",
    "detail": "All SnapMirror relationships are synchronizing as
expected."
},
{
    "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	

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/2",  
  "title": "Collection not found",  
  "detail": "The collection specified in the request URI wasn't  
  found.",  
  "status": "404"  
}
```

Definitions

See Definitions

namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Conforms to the DNS 1123 Label Schema
role	string	False	The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none">• "source"• "destination"

storageClasses

Name	Type	Required	Description
clusterID	string	False	<p>Identifier of the cluster for which the storage class is specified. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
storageClassName	string	False	<p>Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
role	string	False	<p>The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are:</p> <ul style="list-style-type: none"> • "source" • "destination"

type_astra_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type_astra_stateDetail

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

Name	Type	Required	Description
additionalDetails	additionalDetails	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[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 an AppMirror resource

PUT /accounts/{account_id}/k8s/v1/appMirrors/{appMirror_id}

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

Side Effects

- Various side effects based on desiredState.

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>
appMirror_id	string	path	True	ID of the appMirror 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

- Various side effects based on desiredState.

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

Name	Type	Required	Description
sourceAppID	string	False	<p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
sourceClusterID	string	False	<p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
destinationClusterID	string	False	<p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
namespaceMapping	array[namespaceMapping]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
state	string	False	<p>The state of the relationship. Defined values are:</p> <ul style="list-style-type: none"> • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted.
stateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted":

Name	Type	Required	Description
stateDesired	string	False	<p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.
stateAllowed	array[string]	False	<p>States that can be requested in a given state. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted"
stateDetails	array[type_astra_stateDetail]	False	<p>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"> • Minimum Items: 0

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer. Defined values are:</p> <ul style="list-style-type: none"> • "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried. • "idle" - There is currently no transfer in progress.
transferStateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "transferring": "idle" • "idle": "transferring"
transferStateDetails	array[type_astra_stateDetail]	False	<p>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"> • Minimum Items: 0

Name	Type	Required	Description
healthState	string	False	<p>Health state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification
healthStateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning"

Name	Type	Required	Description
healthStateDetails	array[type_astra_stateDetail]	False	<p>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"> • Minimum Items: 0
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"> • 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.

Example request

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "stateDesired": "failedOver"
}
```

Response

Status: 204, Indicates if the appMirror 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	
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	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/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Conforms to the DNS 1123 Label Schema
role	string	False	The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none">• "source"• "destination"

storageClasses

Name	Type	Required	Description
clusterID	string	False	<p>Identifier of the cluster for which the storage class is specified. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
storageClassName	string	False	<p>Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
role	string	False	<p>The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are:</p> <ul style="list-style-type: none"> • "source" • "destination"

type_astra_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type_astra_stateDetail

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

Name	Type	Required	Description
additionalDetails	additionalDetails	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[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 an AppMirror resource

DELETE /accounts/{account_id}/k8s/v1/appMirrors/{appMirror_id}

Removes the specified AppMirror API resource. Starts a process to asynchronously remove the AppMirror resource, along with any resources on the source and destination clusters that were created as a result of the AppMirror relationship. The resources removed are dependent on the state of the relationship at the time of deletion.

Side Effects

- The stateDesired field is set to "deleted".
- The state field is set to "deleting".
- If state is "established", the TridentMirrorRelationships and PersistentVolumeClaims created by the AppMirror relationship will be deleted.
- If state is "failedOver", the TridentMirrorRelationships created by the AppMirror relationship will be deleted and the PersistentVolumeClaims in the destination application will be left in place.
- When the asynchronous delete operation is completed, the AppMirror API resource will be removed from both the source and destination applications.

Parameters

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

Response

Status: 204, Indicates if the appMirror 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

Create a new AppMirror resource for an app

POST /accounts/{account_id}/k8s/v1/apps/{app_id}/appMirrors

Indicates the desired values for the AppMirror API resource to be created.

Parameters

Name	Type	In	Required	Description
account_id	string	path	True	ID of the containing account resource • example: {{.Account}}
app_id	string	path	True	ID of the containing app resource

Request Body

Indicates the desired values for the AppMirror API resource to be created.

Name	Type	Required	Description
type	string	True	<p>Media type of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "application/astra-appMirror"
version	string	True	<p>Version of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "1.0" • "1.1"
sourceAppID	string	True	<p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
namespaceMapping	array[namespaceMapping]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2
stateDesired	string	True	<p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.

Name	Type	Required	Description
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"> • 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.

Example request

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",
  "stateDesired": "established"
}
```

Response

Status: 201, Returns the newly created appMirror 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"> • "application/astra-appMirror"

Name	Type	Required	Description
version	string	True	<p>Version of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "1.0" • "1.1"
id	string	True	<p>Globally unique identifier of the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema
sourceAppID	string	True	<p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
sourceClusterID	string	True	<p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
namespaceMapping	array[namespaceMapping]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
state	string	True	<p>The state of the relationship. Defined values are:</p> <ul style="list-style-type: none"> • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted.
stateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted":

Name	Type	Required	Description
stateDesired	string	True	<p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.
stateAllowed	array[string]	False	<p>States that can be requested in a given state. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted"
stateDetails	array[type_astra_stateDetail]	True	<p>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"> • Minimum Items: 0

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer. Defined values are:</p> <ul style="list-style-type: none"> • "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried. • "idle" - There is currently no transfer in progress.
transferStateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "transferring": "idle" • "idle": "transferring"
transferStateDetails	array[type_astra_stateDetail]	False	<p>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"> • Minimum Items: 0

Name	Type	Required	Description
healthState	string	True	<p>Health state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification
healthStateTransitions	array[type_astra_stateTransition]	True	<p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning"

Name	Type	Required	Description
healthStateDetails	array[type_astra_stateDetail]	True	<p>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"> • Minimum Items: 0
metadata	type_astra_metadata_update	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 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.

Example response

```
{  
  "type": "application/astra-appMirror",  
  "version": "1.1",  
  "id": "512c8dac-b7d4-5be9-836e-eee672965866a",  
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",  
  "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",  
  "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",  
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",  
  "state": "establishing",  
  "stateTransitions": [  
    {  
      "from": "establishing",  
      "to": [  
        "established",  
        "deleting"  
      ]  
    },  
    {  
      "from": "established",  
      "to": [  
        "failingOver",  
        "deleting"  
      ]  
    },  
    {  
      "from": "failingOver",  
      "to": [  
        "failedOver",  
        "deleting"  
      ]  
    },  
    {  
      "from": "failedOver",  
      "to": [  
        "establishing",  
        "deleting"  
      ]  
    },  
    {  
      "from": "deleting",  
      "to": [  
        "deleted"  
      ]  
    }  
  ]  
}
```

```
],
  "stateDesired": "established",
  "stateAllowed": [
    "deleted"
  ],
  "stateDetails": [
    {
      "type": "https://astra.netapp.io/stateDetails/3",
      "title": "AppMirror is being established",
      "detail": "The AppMirror relationship is in the process of being established."
    }
  ],
  "healthState": "warning",
  "healthStateTransitions": [
    {
      "from": "indeterminate",
      "to": [
        "normal",
        "warning",
        "critical"
      ]
    },
    {
      "from": "normal",
      "to": [
        "indeterminate",
        "warning",
        "critical"
      ]
    },
    {
      "from": "warning",
      "to": [
        "indeterminate",
        "normal",
        "critical"
      ]
    },
    {
      "from": "critical",
      "to": [
        "indeterminate",
        "normal",
        "warning"
      ]
    }
  ]
}
```

```

        }
    ],
    "healthStateDetails": [
        {
            "type": "https://astra.netapp.io/stateDetails/4",
            "title": "AppMirror not yet established",
            "detail": "The AppMirror relationship is not protecting the app data yet because the relationship is in the process of being established."
        }
    ],
    "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	
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	True	
status	string	True	
correlationID	string	False	

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/2",
  "title": "Collection not found",
  "detail": "The collection specified in the request URI wasn't
found.",
  "status": "404"
}
```

Definitions

See Definitions

namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Conforms to the DNS 1123 Label Schema
role	string	False	The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none">• "source"• "destination"

storageClasses

Name	Type	Required	Description
clusterID	string	False	<p>Identifier of the cluster for which the storage class is specified. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
storageClassName	string	False	<p>Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
role	string	False	<p>The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are:</p> <ul style="list-style-type: none"> • "source" • "destination"

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_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type_astra_stateDetail

Name	Type	Required	Description
type	string	True	
title	string	True	
detail	string	True	
additionalDetails	additionalDetails	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 the AppMirror resources for an app

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/appMirrors

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

Name	Type	In	Required	Description
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"> • eq - Equality • lt/gt - Less than/Greater than • lte/gte - Less than or equals to/Greater than or equals to <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: appMirror_1.1_get_response_body , array[]]]	True	
metadata	type_astra_metadata_list	True	

Example response

```
{  
  "type": "application/astra-appMirrors",  
  "version": "1.1",  
  "items": [  
    {  
      "type": "application/astra-appMirror",  
      "version": "1.1",  
      "id": "f1c98c2e-6391-42d3-8b21-3e75dac048a3",  
      "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",  
      "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",  
      "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",  
      "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",  
      "namespaceMapping": [  
        {  
          "clusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",  
          "namespaces": [  
            "ns1-src",  
            "ns2-src"  
          ]  
        },  
        {  
          "clusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",  
          "namespaces": [  
            "ns1-dest",  
            "ns2-dest"  
          ]  
        }  
      ],  
      "state": "established",  
      "stateTransitions": [  
        {  
          "from": "establishing",  
          "to": [  
            "established",  
            "deleting"  
          ]  
        },  
        {  
          "from": "established",  
          "to": [  
            "failingOver",  
            "deleting"  
          ]  
        },  
        {  
          "from": "deleting",  
          "to": [  
            "failingOver",  
            "deleting"  
          ]  
        },  
        {  
          "from": "failingOver",  
          "to": [  
            "deleting",  
            "recovered"  
          ]  
        }  
      ]  
    }  
  ]  
}
```

```

{
  "from": "failingOver",
  "to": [
    "failedOver",
    "deleting"
  ]
},
{
  "from": "failedOver",
  "to": [
    "establishing",
    "deleting"
  ]
},
{
  "from": "deleting",
  "to": [
    "deleted"
  ]
}
],
"stateDesired": "established",
"stateAllowed": [
  "failedOver",
  "deleted"
],
"stateDetails": [
  {
    "type": "https://astra.netapp.io/stateDetails/1",
    "title": "AppMirror relationship established",
    "detail": "The AppMirror relationship has been successfully
established."
  }
],
"healthState": "normal",
"healthStateTransitions": [
  {
    "from": "indeterminate",
    "to": [
      "normal",
      "warning",
      "critical"
    ]
  },
  {
    "from": "normal",
    "to": [
      "warning"
    ]
  }
]
}

```

```

        "to": [
            "indeterminate",
            "warning",
            "critical"
        ]
    },
    {
        "from": "warning",
        "to": [
            "indeterminate",
            "normal",
            "critical"
        ]
    },
    {
        "from": "critical",
        "to": [
            "indeterminate",
            "normal",
            "warning"
        ]
    }
],
"healthStateDetails": [
    {
        "type": "https://astra.netapp.io/stateDetails/2",
        "title": "SnapMirror syncing successfully",
        "detail": "All SnapMirror relationships are synchronizing as
expected."
    }
],
"metadata": {
    "labels": [],
    "creationTimestamp": "2020-08-06T12:24:52.256624Z",
    "modificationTimestamp": "2020-08-06T12:24:52.256624Z",
    "createdBy": "11c0cf01-4f27-4ef7-a21c-cb452fc5c9aa"
},
{
    "type": "application/astra-appMirror",
    "version": "1.1",
    "id": "114633f0-5b59-4bd7-adce-a9ba4423a1bd",
    "sourceAppID": "eaf8b854-211d-460a-ac18-d093d8e2ac70",
    "sourceClusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "destinationAppID": "e829c5e0-750f-44ad-a684-aee85be2c2bb",
    "destinationClusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
}

```

```
"namespaceMapping": [
  {
    "clusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "namespaces": [
      "app-namespace"
    ],
    "role": "source"
  },
  {
    "clusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "namespaces": [
      "destination-app-namespace"
    ],
    "role": "destination"
  }
],
"storageClasses": [
  {
    "storageClassName": "destination-sc",
    "clusterID": "fcb27b51-ebb7-40ca-b8f1-1d23ebd06889",
    "role": "destination"
  }
],
"state": "established",
"stateTransitions": [
  {
    "from": "establishing",
    "to": [
      "established",
      "deleting"
    ]
  },
  {
    "from": "established",
    "to": [
      "failingOver",
      "deleting"
    ]
  },
  {
    "from": "failingOver",
    "to": [
      "failedOver",
      "deleting"
    ]
  }
],
```

```
{
  "from": "failedOver",
  "to": [
    "establishing",
    "deleting"
  ]
}
],
"stateDesired": "established",
"stateAllowed": [
  "failedOver",
  "deleted"
],
"stateDetails": [],
"transferState": "idle",
"transferStateTransitions": [
  {
    "from": "transferring",
    "to": [
      "idle"
    ]
  },
  {
    "from": "idle",
    "to": [
      "transferring"
    ]
  }
],
"transferStateDetails": [
  {
    "type": "https://astra.netapp.io/stateDetails/24",
    "title": "Snapshot replication completed",
    "detail": "A snapshot was replicated to the destination.",
    "additionalDetails": {
      "completionTime": "2023-07-06T22:46:39Z",
      "snapshotID": "ae60820d-e963-4eab-8bb3-9159e9f012f0",
      "startTime": "2023-07-06T22:46:08Z"
    }
  }
],
"healthState": "normal",
"healthStateTransitions": [],
"healthStateDetails": [
  {
    "type": "https://astra.netapp.io/stateDetails/24",
    "title": "Snapshot replication completed",
    "detail": "A snapshot was replicated to the destination.",
    "additionalDetails": {
      "completionTime": "2023-07-06T22:46:39Z",
      "snapshotID": "ae60820d-e963-4eab-8bb3-9159e9f012f0",
      "startTime": "2023-07-06T22:46:08Z"
    }
  }
]
```

```

        "title": "Snapshot replication completed",
        "detail": "A snapshot was replicated to the destination.",
        "additionalDetails": {
            "completionTime": "2023-07-06T22:46:39Z",
            "snapshotID": "ae60820d-e963-4eab-8bb3-9159e9f012f0",
            "startTime": "2023-07-06T22:46:08Z"
        }
    }
],
"metadata": {
    "labels": [],
    "creationTimestamp": "2023-07-06T22:45:24Z",
    "modificationTimestamp": "2023-07-06T22:45:24Z",
    "createdBy": "cc420827-f968-4da7-9e72-df8a0fd52f94"
}
}
],
"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	
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

namespaceMapping

Name	Type	Required	Description
clusterID	string	False	Identifier of the cluster for which the namespaces are specified. Defined values are: <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema
namespaces	array[string]	False	List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are: <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Conforms to the DNS 1123 Label Schema
role	string	False	The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are: <ul style="list-style-type: none">• "source"• "destination"

storageClasses

Name	Type	Required	Description
clusterID	string	False	<p>Identifier of the cluster for which the storage class is specified. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
storageClassName	string	False	<p>Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
role	string	False	<p>The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are:</p> <ul style="list-style-type: none"> • "source" • "destination"

type_astra_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type_astra_stateDetail

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

Name	Type	Required	Description
additionalDetails	additionalDetails	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[type_astra_label]	False	
creationTimestamp	string	False	
modificationTimestamp	string	False	
createdBy	string	False	
modifiedBy	string	False	

appMirror_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-appMirror"
version	string	True	Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1"

Name	Type	Required	Description
id	string	True	<p>Globally unique identifier of the resource. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema
sourceAppID	string	True	<p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
sourceClusterID	string	True	<p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
namespaceMapping	array[namespaceMapping]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
state	string	True	<p>The state of the relationship. Defined values are:</p> <ul style="list-style-type: none"> • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted.

Name	Type	Required	Description
stateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted":
stateDesired	string	True	<p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.

Name	Type	Required	Description
stateAllowed	array[string]	False	<p>States that can be requested in a given state. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted"
stateDetails	array[type_astra_stateDetail]	True	<p>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"> • Minimum Items: 0

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer. Defined values are:</p> <ul style="list-style-type: none"> • "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried. • "idle" - There is currently no transfer in progress.
transferStateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "transferring": "idle" • "idle": "transferring"
transferStateDetails	array[type_astra_stateDetail]	False	<p>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"> • Minimum Items: 0

Name	Type	Required	Description
healthState	string	True	<p>Health state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification

Name	Type	Required	Description
healthStateTransitions	array[type_astra_stateTransition]	True	<p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning"
healthStateDetails	array[type_astra_stateDetail]	True	<p>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"> • Minimum Items: 0

Name	Type	Required	Description
metadata	type_astra_metadata_update	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. 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.

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 an AppMirror resource for an app

GET /accounts/{account_id}/k8s/v1/apps/{app_id}/appMirrors/{appMirror_id}

Returns the stored AppMirror API resource in the JSON response body.

Parameters

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

Response

Status: 200, Returns the stored AppMirror API 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">"application/astra-appMirror"
version	string	True	<p>Version of the resource. Defined values are:</p> <ul style="list-style-type: none">"1.0""1.1"
id	string	True	<p>Globally unique identifier of the resource. Defined values are:</p> <ul style="list-style-type: none">Conforms to the UUIDv4 Schema

Name	Type	Required	Description
sourceAppID	string	True	<p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
sourceClusterID	string	True	<p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
destinationClusterID	string	True	<p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
namespaceMapping	array[namespaceMapping]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
state	string	True	<p>The state of the relationship. Defined values are:</p> <ul style="list-style-type: none"> • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted.
stateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted":

Name	Type	Required	Description
stateDesired	string	True	<p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.
stateAllowed	array[string]	False	<p>States that can be requested in a given state. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted"
stateDetails	array[type_astra_stateDetail]	True	<p>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"> • Minimum Items: 0

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer. Defined values are:</p> <ul style="list-style-type: none"> • "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried. • "idle" - There is currently no transfer in progress.
transferStateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "transferring": "idle" • "idle": "transferring"
transferStateDetails	array[type_astra_stateDetail]	False	<p>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"> • Minimum Items: 0

Name	Type	Required	Description
healthState	string	True	<p>Health state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification
healthStateTransitions	array[type_astra_stateTransition]	True	<p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning"

Name	Type	Required	Description
healthStateDetails	array[type_astra_stateDetail]	True	<p>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"> • Minimum Items: 0
metadata	type_astra_metadata_update	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 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.

Example response

```
{  
  "type": "application/astra-appMirror",  
  "version": "1.1",  
  "id": "512c8dac-b7d4-5be9-836e-eee672965866a",  
  "sourceAppID": "efd639b6-fc92-4112-8841-0c0ab7890ae0",  
  "sourceClusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",  
  "destinationAppID": "cd7b6d91-fc19-4983-a754-9a7bb4d80a7b",  
  "destinationClusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",  
  "namespaceMapping": [  
    {  
      "clusterID": "5789e026-c2e2-41e9-ab00-9766bcfa8951",  
      "namespaces": [  
        "ns1-src",  
        "ns2-src"  
      ]  
    },  
    {  
      "clusterID": "c5d023a9-4061-4a8a-bfbf-3be11ff06226",  
      "namespaces": [  
        "ns1-dest",  
        "ns2-dest"  
      ]  
    }  
  ],  
  "state": "established",  
  "stateTransitions": [  
    {  
      "from": "establishing",  
      "to": [  
        "established",  
        "deleting"  
      ]  
    },  
    {  
      "from": "established",  
      "to": [  
        "failingOver",  
        "deleting"  
      ]  
    },  
    {  
      "from": "failingOver",  
      "to": [  
        "failedOver",  
        "deleting"  
      ]  
    }  
  ]  
}
```

```
        "deleting"
    ],
},
{
    "from": "failedOver",
    "to": [
        "establishing",
        "deleting"
    ],
},
{
    "from": "deleting",
    "to": [
        "deleted"
    ]
},
],
"stateDesired": "established",
"stateAllowed": [
    "failedOver",
    "deleted"
],
"stateDetails": [
{
    "type": "https://astra.netapp.io/stateDetails/1",
    "title": "AppMirror relationship established",
    "detail": "The AppMirror relationship has been successfully
established."
},
],
"healthState": "normal",
"healthStateTransitions": [
{
    "from": "indeterminate",
    "to": [
        "normal",
        "warning",
        "critical"
    ]
},
{
    "from": "normal",
    "to": [
        "indeterminate",
        "warning",
        "critical"
    ]
}
]
```

```

        ],
    },
    {
        "from": "warning",
        "to": [
            "indeterminate",
            "normal",
            "critical"
        ],
    },
    {
        "from": "critical",
        "to": [
            "indeterminate",
            "normal",
            "warning"
        ],
    }
],
"healthStateDetails": [
{
    "type": "https://astra.netapp.io/stateDetails/2",
    "title": "SnapMirror syncing successfully",
    "detail": "All SnapMirror relationships are synchronizing as
expected."
},
{
    "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	

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/2",  
  "title": "Collection not found",  
  "detail": "The collection specified in the request URI wasn't  
  found.",  
  "status": "404"  
}
```

Definitions

See Definitions

namespaceMapping

Name	Type	Required	Description
clusterID	string	False	<p>Identifier of the cluster for which the namespaces are specified. Defined values are:</p> <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema
namespaces	array[string]	False	<p>List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are:</p> <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Conforms to the DNS 1123 Label Schema
role	string	False	<p>The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are:</p> <ul style="list-style-type: none">• "source"• "destination"

storageClasses

Name	Type	Required	Description
clusterID	string	False	<p>Identifier of the cluster for which the storage class is specified. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
storageClassName	string	False	<p>Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
role	string	False	<p>The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are:</p> <ul style="list-style-type: none"> • "source" • "destination"

type_astra_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type_astra_stateDetail

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

Name	Type	Required	Description
additionalDetails	additionalDetails	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[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 an AppMirror resource for an app

PUT /accounts/{account_id}/k8s/v1/apps/{app_id}/appMirrors/{appMirror_id}

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

Side Effects

- Various side effects based on desiredState.

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>
app_id	string	path	True	ID of the containing app resource
appMirror_id	string	path	True	ID of the appMirror 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

- Various side effects based on desiredState.

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

Name	Type	Required	Description
sourceAppID	string	False	<p>Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
sourceClusterID	string	False	<p>Identifier of the managed cluster hosting the source application. This field is read-only and is determined based on the host cluster of the source application. If provided in an update, it must match the cluster ID of the source application, so it can only change when swapping the sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
destinationAppID	string	False	<p>Identifier of the destination application. Cannot be provided on create because a new app ID will be generated as part of relationship initialization. Can only be updated when swapping sourceAppID with the destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema

Name	Type	Required	Description
destinationClusterID	string	False	<p>Identifier of the managed cluster to host the destination application. Must be provided on create because it determines what cluster the destination application will be created on. If provided on update, it must match the cluster ID of the destination application, so it can only change when swapping sourceAppID with destinationAppID. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
namespaceMapping	array[namespaceMapping]	False	<p>The namespace or namespaces to use when creating the destination application, corresponding to the namespaces of the source application. Each JSON object contains the fields "clusterID" and "namespaces", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "namespaces" value is a JSON array of JSON strings. There must be exactly one JSON object for each cluster, and the namespaces will be correlated by index. If not provided, the same namespace from the source cluster will be used in the destination cluster. Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
storageClasses	array[storageClasses]	False	<p>The storage class to be used on the destination cluster when creating new Persistent Volume Claims (PVCs). Each JSON object contains the fields "clusterID" and "storageClassName", where the "clusterID" value is the JSON string ID of the source or destination cluster, and the "storageClassName" is the storage class to use when creating PVCs on that cluster. If not provided or if the value is missing for a cluster, the default storage class will be used for that cluster.</p> <p>Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 0 • Maximum length: 2

Name	Type	Required	Description
state	string	False	<p>The state of the relationship. Defined values are:</p> <ul style="list-style-type: none"> • "establishing" - The relationship is being created. • "established" - The relationship is created. • "failingOver" - Failover of the application to the destination cluster is in progress. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleting" - Resources created by the relationship are being cleaned up. • "deleted" - The relationship was cleaned up and deleted.
stateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleting" • "established": "failingOver", "deleting" • "failingOver": "failedOver", "deleting" • "failedOver": "establishing", "deleting" • "deleting": "deleted" • "deleted":

Name	Type	Required	Description
stateDesired	string	False	<p>The desired state for the relationship. At creation, the only valid value is "established". Defined values are:</p> <ul style="list-style-type: none"> • "established" - The relationship is created. • "failedOver" - Failover of the application to the destination cluster has completed. • "deleted" - The relationship was successfully cleaned up and deleted.
stateAllowed	array[string]	False	<p>States that can be requested in a given state. The following states can be requested in each defined state:</p> <ul style="list-style-type: none"> • "establishing": "established", "deleted" • "established": "failedOver", "deleted" • "failingOver": "failedOver", "deleted" • "failedOver": "established", "deleted" • "deleting": "deleted" • "deleted": "deleted"
stateDetails	array[type_astra_stateDetail]	False	<p>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"> • Minimum Items: 0

Name	Type	Required	Description
transferState	string	False	<p>State of the current or most recent snapshot transfer. Defined values are:</p> <ul style="list-style-type: none"> • "transferring" - A new snapshot was created and is now being replicated to the destination cluster. This state also covers the transfers that have failed on previous attempts and are being continually retried. • "idle" - There is currently no transfer in progress.
transferStateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "transferring": "idle" • "idle": "transferring"
transferStateDetails	array[type_astra_stateDetail]	False	<p>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"> • Minimum Items: 0

Name	Type	Required	Description
healthState	string	False	<p>Health state of the resource. Defined values are:</p> <ul style="list-style-type: none"> • "indeterminate" - The health of the resource cannot be determined (for example, due to lack of connectivity) • "normal" - The resource has no known issues and can provide services in accordance with the interface specification • "warning" - The resource has known issues that do not prevent it providing services in accordance with the interface specification • "critical" - The resource has known issues that prevent it from providing services in accordance with the interface specification
healthStateTransitions	array[type_astra_stateTransition]	False	<p>Permitted state transitions from a given defined state. The following state transitions are possible for this resource:</p> <ul style="list-style-type: none"> • "indeterminate": "normal", "warning", "critical" • "normal": "indeterminate", "warning", "critical" • "warning": "indeterminate", "normal", "critical" • "critical": "indeterminate", "normal", "warning"

Name	Type	Required	Description
healthStateDetails	array[type_astra_stateDetail]	False	<p>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"> • Minimum Items: 0
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"> • 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.

Example request

```
{
  "type": "application/astra-appMirror",
  "version": "1.1",
  "stateDesired": "failedOver"
}
```

Response

Status: 204, Indicates if the appMirror 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	
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	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/1",
  "title": "Resource not found",
  "detail": "The resource specified in the request URI wasn't found.",
  "status": "404"
}
```

Definitions

See Definitions

namespaceMapping

Name	Type	Required	Description
clusterID	string	False	<p>Identifier of the cluster for which the namespaces are specified. Defined values are:</p> <ul style="list-style-type: none">• Conforms to the Astra Identifier Schema
namespaces	array[string]	False	<p>List of namespaces to use on the cluster. Correlated with the other cluster namespace list by index. Defined values are:</p> <ul style="list-style-type: none">• Minimum length: 1• Maximum length: 63• Conforms to the DNS 1123 Label Schema
role	string	False	<p>The initial role for this namespace definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are:</p> <ul style="list-style-type: none">• "source"• "destination"

storageClasses

Name	Type	Required	Description
clusterID	string	False	<p>Identifier of the cluster for which the storage class is specified. Defined values are:</p> <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema
storageClassName	string	False	<p>Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are:</p> <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255
role	string	False	<p>The initial role for this storage class definition. This parameter is optional except for when a same-cluster replication configuration is used. Defined values are:</p> <ul style="list-style-type: none"> • "source" • "destination"

type_astra_stateTransition

Name	Type	Required	Description
from	string	True	
to	array[string]	True	

additionalDetails

type_astra_stateDetail

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

Name	Type	Required	Description
additionalDetails	additionalDetails	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[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 an AppMirror resource for an app

DELETE /accounts/{account_id}/k8s/v1/apps/{app_id}/appMirrors/{appMirror_id}

Removes the specified AppMirror API resource. Starts a process to asynchronously remove the AppMirror resource, along with any resources on the source and destination clusters that were created as a result of the AppMirror relationship. The resources removed are dependent on the state of the relationship at the time of deletion.

Side Effects

- The stateDesired field is set to "deleted".
- The state field is set to "deleting".
- If state is "established", the TridentMirrorRelationships and PersistentVolumeClaims created by the AppMirror relationship will be deleted.
- If state is "failedOver", the TridentMirrorRelationships created by the AppMirror relationship will be deleted and the PersistentVolumeClaims in the destination application will be left in place.
- When the asynchronous delete operation is completed, the AppMirror API resource will be removed from both the source and destination applications.

Parameters

Name	Type	In	Required	Description
account_id	string	path	True	<p>ID of the containing account resource</p> <ul style="list-style-type: none">• example: {{.Account}}
app_id	string	path	True	ID of the containing app resource
appMirror_id	string	path	True	ID of the appMirror collection to list

Response

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

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/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

Informazioni sul copyright

Copyright © 2025 NetApp, Inc. Tutti i diritti riservati. Stampato negli Stati Uniti d'America. Nessuna porzione di questo documento soggetta a copyright può essere riprodotta in qualsiasi formato o mezzo (grafico, elettronico o meccanico, inclusi fotocopie, registrazione, nastri o storage in un sistema elettronico) senza previo consenso scritto da parte del detentore del copyright.

Il software derivato dal materiale sottoposto a copyright di NetApp è soggetto alla seguente licenza e dichiarazione di non responsabilità:

IL PRESENTE SOFTWARE VIENE FORNITO DA NETAPP "COSÌ COM'È" E SENZA QUALSIVOGLIA TIPO DI GARANZIA IMPLICITA O ESPRESSA FRA CUI, A TITOLO ESEMPLIFICATIVO E NON ESAUSTIVO, GARANZIE IMPLICITE DI COMMERCIALITÀ E IDONEITÀ PER UNO SCOPO SPECIFICO, CHE VENGONO DECLINATE DAL PRESENTE DOCUMENTO. NETAPP NON VERRÀ CONSIDERATA RESPONSABILE IN ALCUN CASO PER QUALSIVOGLIA DANNO DIRETTO, INDIRETTO, ACCIDENTALE, SPECIALE, ESEMPLARE E CONSEGUENZIALE (COMPRESI, A TITOLO ESEMPLIFICATIVO E NON ESAUSTIVO, PROCUREMENT O SOSTITUZIONE DI MERCI O SERVIZI, IMPOSSIBILITÀ DI UTILIZZO O PERDITA DI DATI O PROFITTI OPPURE INTERRUZIONE DELL'ATTIVITÀ AZIENDALE) CAUSATO IN QUALSIVOGLIA MODO O IN RELAZIONE A QUALUNQUE TEORIA DI RESPONSABILITÀ, SIA ESSA CONTRATTUALE, RIGOROSA O DOVUTA A INSOLVENZA (COMPRESA LA NEGLIGENZA O ALTRO) INSORTA IN QUALSIASI MODO ATTRAVERSO L'UTILIZZO DEL PRESENTE SOFTWARE ANCHE IN PRESENZA DI UN PREAVVISO CIRCA L'EVENTUALITÀ DI QUESTO TIPO DI DANNI.

NetApp si riserva il diritto di modificare in qualsiasi momento qualunque prodotto descritto nel presente documento senza fornire alcun preavviso. NetApp non si assume alcuna responsabilità circa l'utilizzo dei prodotti o materiali descritti nel presente documento, con l'eccezione di quanto concordato espressamente e per iscritto da NetApp. L'utilizzo o l'acquisto del presente prodotto non comporta il rilascio di una licenza nell'ambito di un qualche diritto di brevetto, marchio commerciale o altro diritto di proprietà intellettuale di NetApp.

Il prodotto descritto in questa guida può essere protetto da uno o più brevetti degli Stati Uniti, esteri o in attesa di approvazione.

LEGENDA PER I DIRITTI SOTTOPOSTI A LIMITAZIONE: l'utilizzo, la duplicazione o la divulgazione da parte degli enti governativi sono soggetti alle limitazioni indicate nel sottoparagrafo (b)(3) della clausola Rights in Technical Data and Computer Software del DFARS 252.227-7013 (FEB 2014) e FAR 52.227-19 (DIC 2007).

I dati contenuti nel presente documento riguardano un articolo commerciale (secondo la definizione data in FAR 2.101) e sono di proprietà di NetApp, Inc. Tutti i dati tecnici e il software NetApp forniti secondo i termini del presente Contratto sono articoli aventi natura commerciale, sviluppati con finanziamenti esclusivamente privati. Il governo statunitense ha una licenza irrevocabile limitata, non esclusiva, non trasferibile, non cedibile, mondiale, per l'utilizzo dei Dati esclusivamente in connessione con e a supporto di un contratto governativo statunitense in base al quale i Dati sono distribuiti. Con la sola esclusione di quanto indicato nel presente documento, i Dati non possono essere utilizzati, divulgati, riprodotti, modificati, visualizzati o mostrati senza la previa approvazione scritta di NetApp, Inc. I diritti di licenza del governo degli Stati Uniti per il Dipartimento della Difesa sono limitati ai diritti identificati nella clausola DFARS 252.227-7015(b) (FEB 2014).

Informazioni sul marchio commerciale

NETAPP, il logo NETAPP e i marchi elencati alla pagina <http://www.netapp.com/TM> sono marchi di NetApp, Inc. Gli altri nomi di aziende e prodotti potrebbero essere marchi dei rispettivi proprietari.