



AppMirror

Astra Automation

NetApp
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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 | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |

Request Body

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

| Name | Type | Required | Description |
|---------|--------|----------|---|
| type | string | True | Media type of the resource. Defined values are: <ul style="list-style-type: none">"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 |
|----------------------|--------|----------|--|
| 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. 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 | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| sourceAppID | string | True | Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterID | string | True | 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: <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. 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-ee672965866a",
  "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 relationship is in the process of being
established, so it's not protecting the app data yet."
    }
  ],
  "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 | Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageClassName | string | False | Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| role | string | False | 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: <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 | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| 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": "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": [
            "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": "11c0cfa1-4f27-4ef7-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-ae85be2c2bb",
    "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"
    }
  },
  "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 | Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageClassName | string | False | Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| role | string | False | 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: <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 | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| sourceAppID | string | True | Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterID | string | True | 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: <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. 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 | 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 |

Response

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

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

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| 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. 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-ee672965866a",
  "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"
    ]
},
{
    "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 | Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageClassName | string | False | Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| role | string | False | 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: <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: {{.Account}} |
| 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. 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 | 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: <ul style="list-style-type: none"> • Minimum Items: 0 |
| metadata | type_astra_metadata_update | False | Client and service-specified metadata associated with the resource. Defined values are: <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 | Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageClassName | string | False | Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| role | string | False | 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: <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 | ID of the containing account resource • 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 <ul style="list-style-type: none">example: <code>{{.Account}}</code> |
| 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 | 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" |
| sourceAppID | string | True | Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| destinationClusterID | string | True | 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: <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. 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 | Version of the resource. Defined values are: <ul style="list-style-type: none"> • "1.0" • "1.1" |
| id | string | True | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| sourceAppID | string | True | Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterID | string | True | 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: <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. 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-ee672965866a",
  "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 relationship is in the process of being
established, so it's not protecting the app data yet."
    }
  ],
  "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 | Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageClassName | string | False | Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| role | string | False | 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: <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 | ID of the containing account resource <ul style="list-style-type: none">example: {{.Account}} |
| app_id | string | path | True | ID of the containing app resource |
| include | string | query | False | Indicates which fields should be returned when listing a collection. URL examples: "include=id", "include=id,name" OpenAPI examples: "id" |
| limit | string | query | False | Indicates the maximum number of resources to return when listing a collection. URL examples: "limit=2" OpenAPI examples: "2" |

| 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": "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": [
      "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": "11c0cfa1-4f27-4ef7-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-ae85be2c2bb",
  "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"
    }
  },
  "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 | Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageClassName | string | False | Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| role | string | False | 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: <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 | Globally unique identifier of the resource. Defined values are: <ul style="list-style-type: none"> • Conforms to the UUIDv4 Schema |
| sourceAppID | string | True | Identifier of the source application. Only updated when swapping the sourceAppID with the destinationAppID. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| sourceClusterID | string | True | 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: <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. 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 | ID of the containing account resource <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: 200, Returns the stored AppMirror API resource in the JSON response body.

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

| Name | Type | Required | Description |
|------------------|--------|----------|--|
| 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. 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-ee672965866a",
  "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"
    ]
},
{
    "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 | Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageClassName | string | False | Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| role | string | False | 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: <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: {{.Account}} |
| 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. 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 | 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: <ul style="list-style-type: none"> • Minimum Items: 0 |
| metadata | type_astra_metadata_update | False | Client and service-specified metadata associated with the resource. Defined values are: <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 | Identifier of the cluster for which the storage class is specified. Defined values are: <ul style="list-style-type: none"> • Conforms to the Astra Identifier Schema |
| storageClassName | string | False | Name of the storage class to use when creating PVCs on the cluster specified in "clusterID". Defined values are: <ul style="list-style-type: none"> • Minimum length: 1 • Maximum length: 255 |
| role | string | False | 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: <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 | ID of the containing account resource • 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 |

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