



Manage SnapMirror policies

ONTAP 9.7 REST API reference

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Manage SnapMirror policies

SnapMirror policies endpoint overview

Managing SnapMirror policies

This API is used to manage SnapMirror policies of type "mirror-vault", "sync-mirror" and "strict-sync-mirror". When applied to a SnapMirror relationship, the SnapMirror policy controls the behavior of the relationship and specifies the configuration attributes for that relationship.

Mapping of SnapMirror policies from CLI to REST

| CLI | REST |
|--------------|-------|
| mirror-vault | async |

| CLI | REST | sync_type |
|--------------------|------|-------------|
| sync-mirror | sync | sync |
| strict-sync-mirror | sync | strict_sync |

Retrieve SnapMirror async and sync policy types

GET /snapmirror/policies

Retrieves SnapMirror policies of type "mirror-vault", "sync-mirror" and "strict-sync-mirror".

Related ONTAP commands

- `snapmirror policy show`

Example

The following example shows how to retrieve a collection of SnapMirror policies.

```
GET "/api/storage/snapmirror/policies"
```

Learn more

- [DOC /snapmirror/policies](#)

Parameters

| Name | Type | In | Required | Description |
|-------|--------|-------|----------|-----------------|
| scope | string | query | False | Filter by scope |

| Name | Type | In | Required | Description |
|------------------------------------|---------|-------|----------|----------------------------------------------|
| transfer_schedule.uuid | string | query | False | Filter by transfer_schedule.uuid |
| transfer_schedule.name | string | query | False | Filter by transfer_schedule.name |
| sync_common_snapshot_schedule.uuid | string | query | False | Filter by sync_common_snapshot_schedule.uuid |
| sync_common_snapshot_schedule.name | string | query | False | Filter by sync_common_snapshot_schedule.name |
| identity_preservation | string | query | False | Filter by identity_preservation |
| comment | string | query | False | Filter by comment |
| retention.count | integer | query | False | Filter by retention.count |
| retention.prefix | string | query | False | Filter by retention.prefix |
| retention.label | string | query | False | Filter by retention.label |
| retention.creation_schedule.uuid | string | query | False | Filter by retention.creation_schedule.uuid |
| retention.creation_schedule.name | string | query | False | Filter by retention.creation_schedule.name |
| name | string | query | False | Filter by name |
| sync_type | string | query | False | Filter by sync_type |
| uuid | string | query | False | Filter by uuid |

| Name | Type | In | Required | Description |
|-----------------------------|---------------|-------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| network_compression_enabled | boolean | query | False | Filter by network_compression_enabled |
| throttle | integer | query | False | Filter by throttle |
| svm.uuid | string | query | False | Filter by svm.uuid |
| svm.name | string | query | False | Filter by svm.name |
| type | string | query | False | Filter by type |
| fields | array[string] | query | False | Specify the fields to return. |
| max_records | integer | query | False | Limit the number of records returned. |
| return_records | boolean | query | False | The default is true for GET calls. When set to false, only the number of records is returned. |
| return_timeout | integer | query | False | The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

Response

Status: 200, Ok

| Name | Type | Description |
|-------------|--------------------------------------------|-------------------|
| _links | _links | |
| num_records | integer | Number of records |
| records | array[snapmirror_policy] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "comment": "string",
    "identity_preservation": "full",
    "name": "Asynchronous",
    "retention": {
      "count": 7,
      "creation_schedule": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "weekly",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "label": "hourly",
      "prefix": "string"
    },
    "scope": "svm",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "sync_common_snapshot_schedule": {
      "_links": {
```

```

        "self": {
            "href": "/api/resourcelink"
        },
    },
    "name": "weekly",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"sync_type": "sync",
"throttle": 0,
"transfer_schedule": {
    "_links": {
        "self": {
            "href": "/api/resourcelink"
        }
    },
    "name": "weekly",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"type": "async",
"uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
}
}

```

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|-------------------------------------|
| 13303842 | SnapMirror policy is not supported. |

| Name | Type | Description |
|-------|-----------------------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| next | href | |
| self | href | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

creation_schedule

Schedule used to create Snapshot copies on the destination for long term retention.

| Name | Type | Description |
|--------|------------------------|-------------------|
| _links | _links | |
| name | string | Job schedule name |
| uuid | string | Job schedule UUID |

snapmirror_policy_rule

SnapMirror policy rule for retention.

| Name | Type | Description |
|-------------------|-----------------------------------|-------------------------------------------------------------------------------------|
| count | integer | Number of Snapshot copies to be kept for retention. |
| creation_schedule | creation_schedule | Schedule used to create Snapshot copies on the destination for long term retention. |
| label | string | Snapshot copy label |

| Name | Type | Description |
|--------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| prefix | string | Specifies the prefix for the Snapshot copy name to be created as per the schedule. If no value is specified, then the label is used as the prefix. |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

sync_common_snapshot_schedule

Schedule used to create common Snapshot copies for synchronous relationships.

| Name | Type | Description |
|--------|------------------------|-------------------|
| _links | _links | |
| name | string | Job schedule name |
| uuid | string | Job schedule UUID |

transfer_schedule

The schedule used to update asynchronous relationships.

| Name | Type | Description |
|--------|------------------------|-------------------|
| _links | _links | |
| name | string | Job schedule name |
| uuid | string | Job schedule UUID |

snapmirror_policy

SnapMirror policy information

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |

| Name | Type | Description |
|-------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| comment | string | Comment associated with the policy. |
| identity_preservation | string | Specifies which configuration of the source SVM is replicated to the destination. This property is applicable only for SVM data protection and async policies. |
| name | string | |
| network_compression_enabled | boolean | Specifies whether network compression is enabled for transfers. This is applicable only to async policies. |
| retention | array[snapmirror_policy_rule] | Policy on Snapshot copy retention. This is applicable only to async policies. |
| scope | string | Set to "svm" for policies owned by an SVM, otherwise set to "cluster". |
| svm | svm | |
| sync_common_snapshot_schedule | sync_common_snapshot_schedule | Schedule used to create common Snapshot copies for synchronous relationships. |
| sync_type | string | |
| throttle | integer | Throttle in KB/s. Default to unlimited. |
| transfer_schedule | transfer_schedule | The schedule used to update asynchronous relationships. |
| type | string | |
| uuid | string | |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|------------------------------------------|---------------------------------------------|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

Create a SnapMirror policy

POST /snapmirror/policies

Creates a SnapMirror policy. The property "identity_preservation" is applicable to only SnapMirror relationships with SVM endpoints and it indicates which configuration of the source SVM is replicated to the destination SVM.

It takes the following values:

- `full` - indicates that the source SVM configuration is replicated to the destination SVM endpoint.
- `exclude_network_config` - indicates that the source SVM configuration other than network configuration is replicated to the destination SVM endpoint.
- `exclude_network_and_protocol_config` - indicates that the source SVM configuration is not replicated to the destination SVM endpoint.

Important note

- The property "identity_preservation" is applicable to only SnapMirror relationships with SVM endpoints and it indicates which configuration of the source SVM is replicated to the destination SVM.
- The properties "identity_preservation", "retention" and "transfer_schedule" are not applicable for "sync" type policies.
- The property "sync_common_snapshot_schedule" is not applicable for an "async" type policy.
- The property "retention.count" specifies the maximum number of Snapshot copies that are retained on the SnapMirror destination volume.
- When the property "retention.label" is specified, the Snapshot copies that have a SnapMirror label matching this property is transferred to the SnapMirror destination.
- When the property "retention.creation_schedule" is specified, Snapshot copies are directly created on the SnapMirror destination. The Snapshot copies created have the same content as the latest Snapshot copy already present on the SnapMirror destination.

Required properties

- `name` - Name of the new SnapMirror policy.

Recommended optional properties

- `svm.name` or `svm.uuid` - Name or UUID of the SVM that owns the SnapMirror policy.

Default property values

If not specified in POST, the following default property values are assigned:

- `type` - *async*
- `sync_type` - *sync* (when `type` is *sync*)
- `network_compression_enabled` - *false*
- `throttle` - *0*
- `identity_preservation` - *exclude_network_and_protocol_config*

Related ONTAP commands

- `snapmirror policy create`

Examples

Creating a SnapMirror policy of type "sync"

```
POST "/api/snapmirror/policies/" '{"name": "policy1", "svm.name": "VS0",  
"type": "sync", "sync_type": "sync"}'
```

Creating a SnapMirror policy of type "async" with retention values

```
POST "/api/snapmirror/policies" '{"name": "policy_ret", "svm": {"name":  
"vs1"}, "retention": {"label": ["smcreate"], "count": ["2"],  
"creation_schedule": ["weekly"]}]'
```

Creating a SnapMirror policy of type "async"

```
POST "/api/snapmirror/policies" '{"name": "newPolicy", "svm":{"name" :  
"vs1"}, "type": "async"}'
```

Learn more

- [DOC /snapmirror/policies](#)

Parameters

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| return_records | boolean | query | False | The default is false. If set to true, the records are returned. |
| return_timeout | integer | query | False | The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202. |

Request Body

| Name | Type | Description |
|-----------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| _links | _links | |
| comment | string | Comment associated with the policy. |
| identity_preservation | string | Specifies which configuration of the source SVM is replicated to the destination. This property is applicable only for SVM data protection and async policies. |

| Name | Type | Description |
|-------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| name | string | |
| network_compression_enabled | boolean | Specifies whether network compression is enabled for transfers. This is applicable only to async policies. |
| retention | array[snapmirror_policy_rule] | Policy on Snapshot copy retention. This is applicable only to async policies. |
| scope | string | Set to "svm" for policies owned by an SVM, otherwise set to "cluster". |
| svm | svm | |
| sync_common_snapshot_schedule | sync_common_snapshot_schedule | Schedule used to create common Snapshot copies for synchronous relationships. |
| sync_type | string | |
| throttle | integer | Throttle in KB/s. Default to unlimited. |
| transfer_schedule | transfer_schedule | The schedule used to update asynchronous relationships. |
| type | string | |
| uuid | string | |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "comment": "string",
  "identity_preservation": "full",
  "name": "Asynchronous",
  "retention": {
    "count": 7,
    "creation_schedule": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "weekly",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "label": "hourly",
    "prefix": "string"
  },
  "scope": "svm",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "sync_common_snapshot_schedule": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "weekly",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "sync_type": "sync",
  "throttle": 0,
```

```

"transfer_schedule": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "weekly",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"type": "async",
"uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
}

```

Response

Status: 202, Accepted

| Name | Type | Description |
|------|--------------------------|-------------|
| job | job_link | |

Example response

```

{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}

```

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|---------------------------------------------------|
| 13303850 | Invalid input parameter |
| 13303887 | Maximum number of allowed retention rules reached |

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

creation_schedule

Schedule used to create Snapshot copies on the destination for long term retention.

| Name | Type | Description |
|--------|------------------------|-------------------|
| _links | _links | |
| name | string | Job schedule name |
| uuid | string | Job schedule UUID |

snapmirror_policy_rule

SnapMirror policy rule for retention.

| Name | Type | Description |
|-------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| count | integer | Number of Snapshot copies to be kept for retention. |
| creation_schedule | creation_schedule | Schedule used to create Snapshot copies on the destination for long term retention. |
| label | string | Snapshot copy label |
| prefix | string | Specifies the prefix for the Snapshot copy name to be created as per the schedule. If no value is specified, then the label is used as the prefix. |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

sync_common_snapshot_schedule

Schedule used to create common Snapshot copies for synchronous relationships.

| Name | Type | Description |
|--------|------------------------|-------------------|
| _links | _links | |
| name | string | Job schedule name |
| uuid | string | Job schedule UUID |

transfer_schedule

The schedule used to update asynchronous relationships.

| Name | Type | Description |
|--------|------------------------|-------------------|
| _links | _links | |
| name | string | Job schedule name |
| uuid | string | Job schedule UUID |

snapmirror_policy

SnapMirror policy information

| Name | Type | Description |
|-----------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| _links | _links | |
| comment | string | Comment associated with the policy. |
| identity_preservation | string | Specifies which configuration of the source SVM is replicated to the destination. This property is applicable only for SVM data protection and async policies. |
| name | string | |

| Name | Type | Description |
|-------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| network_compression_enabled | boolean | Specifies whether network compression is enabled for transfers. This is applicable only to async policies. |
| retention | array[snapmirror_policy_rule] | Policy on Snapshot copy retention. This is applicable only to async policies. |
| scope | string | Set to "svm" for policies owned by an SVM, otherwise set to "cluster". |
| svm | svm | |
| sync_common_snapshot_schedule | sync_common_snapshot_schedule | Schedule used to create common Snapshot copies for synchronous relationships. |
| sync_type | string | |
| throttle | integer | Throttle in KB/s. Default to unlimited. |
| transfer_schedule | transfer_schedule | The schedule used to update asynchronous relationships. |
| type | string | |
| uuid | string | |

job_link

| Name | Type | Description |
|--------|------------------------|-------------------------------------------------------------------------------------------|
| _links | _links | |
| uuid | string | The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation. |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|------------------------------------------|---------------------------------------------|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

Delete a SnapMirror policy

DELETE /snapmirror/policies/{uuid}

Deletes a SnapMirror policy.

Related ONTAP commands

- `snapmirror policy delete`

Example

```
DELETE "/api/snapmirror/policies/510c15d4-f9e6-11e8-bdb5-0050568e12c2"
```

Learn more

- [DOC /snapmirror/policies](#)

Parameters

| Name | Type | In | Required | Description |
|------|--------|------|----------|-------------|
| uuid | string | path | True | Policy UUID |

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| return_timeout | integer | query | False | The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202. |

Response

Status: 202, Accepted

| Name | Type | Description |
|------|--------------------------|-------------|
| job | job_link | |

Example response

```
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
```

Error

Status: Default, Error

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

job_link

| Name | Type | Description |
|--------|------------------------|-------------------------------------------------------------------------------------------|
| _links | _links | |
| uuid | string | The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation. |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|------------------------------------------|---------------------------------------------|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

Retrieve a specific SnapMirror policy

GET /snapmirror/policies/{uuid}

Retrieves a specific SnapMirror policy.

Example

```
GET "/api/snapmirror/policies/567aaac0-f863-11e8-a666-0050568e12c2"
```

Learn more

- [DOC /snapmirror/policies](#)

Parameters

| Name | Type | In | Required | Description |
|--------|---------------|-------|----------|-------------------------------|
| uuid | string | path | True | Policy UUID |
| fields | array[string] | query | False | Specify the fields to return. |

Response

```
Status: 200, Ok
```

| Name | Type | Description |
|-----------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| _links | _links | |
| comment | string | Comment associated with the policy. |
| identity_preservation | string | Specifies which configuration of the source SVM is replicated to the destination. This property is applicable only for SVM data protection and async policies. |
| name | string | |
| network_compression_enabled | boolean | Specifies whether network compression is enabled for transfers. This is applicable only to async policies. |
| retention | array[snapmirror_policy_rule] | Policy on Snapshot copy retention. This is applicable only to async policies. |

| Name | Type | Description |
|-------------------------------|-----------------------------------------------|-------------------------------------------------------------------------------|
| scope | string | Set to "svm" for policies owned by an SVM, otherwise set to "cluster". |
| svm | svm | |
| sync_common_snapshot_schedule | sync_common_snapshot_schedule | Schedule used to create common Snapshot copies for synchronous relationships. |
| sync_type | string | |
| throttle | integer | Throttle in KB/s. Default to unlimited. |
| transfer_schedule | transfer_schedule | The schedule used to update asynchronous relationships. |
| type | string | |
| uuid | string | |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "comment": "string",
  "identity_preservation": "full",
  "name": "Asynchronous",
  "retention": {
    "count": 7,
    "creation_schedule": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "weekly",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "label": "hourly",
    "prefix": "string"
  },
  "scope": "svm",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "sync_common_snapshot_schedule": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "weekly",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "sync_type": "sync",
  "throttle": 0,
```

```

"transfer_schedule": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "weekly",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"type": "async",
"uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
}

```

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|-------------------------------------|
| 13303842 | SnapMirror policy is not supported. |

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

```

{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}

```

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

creation_schedule

Schedule used to create Snapshot copies on the destination for long term retention.

| Name | Type | Description |
|--------|------------------------|-------------------|
| _links | _links | |
| name | string | Job schedule name |
| uuid | string | Job schedule UUID |

snapmirror_policy_rule

SnapMirror policy rule for retention.

| Name | Type | Description |
|-------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| count | integer | Number of Snapshot copies to be kept for retention. |
| creation_schedule | creation_schedule | Schedule used to create Snapshot copies on the destination for long term retention. |
| label | string | Snapshot copy label |
| prefix | string | Specifies the prefix for the Snapshot copy name to be created as per the schedule. If no value is specified, then the label is used as the prefix. |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

sync_common_snapshot_schedule

Schedule used to create common Snapshot copies for synchronous relationships.

| Name | Type | Description |
|--------|------------------------|-------------------|
| _links | _links | |
| name | string | Job schedule name |
| uuid | string | Job schedule UUID |

transfer_schedule

The schedule used to update asynchronous relationships.

| Name | Type | Description |
|--------|------------------------|-------------------|
| _links | _links | |
| name | string | Job schedule name |
| uuid | string | Job schedule UUID |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|------------------------------------------|-------------------|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |

| Name | Type | Description |
|--------|--------|---------------------------------------------|
| target | string | The target parameter that caused the error. |

Update the SnapMirror policy

PATCH /snapmirror/policies/{uuid}

Updates the SnapMirror policy.

Important notes

- The properties "transfer_schedule" and "throttle" can be modified only if all the SnapMirror relationships associated with the specified SnapMirror policy have the same values.
- The properties "retention.label" and "retention.count" are mandatory if "retention" is provided in the input. The provided "retention.label" is the final list and is replaced with the existing values.
- The value of the "identity_preservation" property cannot be changed if the SnapMirror relationships associated with the policy have different identity_preservation configurations.
- If the SnapMirror policy "identity_preservation" value matches the "identity_preservation" value of the associated SnapMirror relationships, then the "identity_preservation" value can be changed from a higher "identity_preservation" threshold value to a lower "identity_preservation" threshold value but not vice-versa. For example, the threshold value of the "identity_preservation" property can be changed from "full" to "exclude_network_config" to "exclude_network_and_protocol_config", but could not be increased from "exclude_network_and_protocol_config" to "exclude_network_config" to "full".

Related ONTAP commands

- `snapmirror policy modify`

Example

Updating the "retention" property

```
PATCH "/api/snapmirror/policies/fe65686d-00dc-11e9-b5fb-0050568e3f83"
'{"retention" : {"label" : ["sm_created", "lab2"], "count": ["1","2"],
"creation_schedule": {"name": ["weekly"]}}}'
```

Updating "transfer_schedule", "throttle", and "identity_preservation" properties

```
PATCH "/api/snapmirror/policies/8aef950b-3bef-11e9-80ac-0050568ea591"
'{"transfer_schedule.name" : "weekly", "throttle" : "100",
"identity_preservation":"exclude_network_and_protocol_config"}'
```

Learn more

- [DOC /snapmirror/policies](#)

Parameters

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| return_timeout | integer | query | False | The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202. |
| uuid | string | path | True | Policy UUID |

Request Body

| Name | Type | Description |
|---------|------------------------|-------------------------------------|
| _links | _links | |
| comment | string | Comment associated with the policy. |

| Name | Type | Description |
|-------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| identity_preservation | string | Specifies which configuration of the source SVM is replicated to the destination. This property is applicable only for SVM data protection and async policies. |
| name | string | |
| network_compression_enabled | boolean | Specifies whether network compression is enabled for transfers. This is applicable only to async policies. |
| retention | array[snapmirror_policy_rule] | Policy on Snapshot copy retention. This is applicable only to async policies. |
| scope | string | Set to "svm" for policies owned by an SVM, otherwise set to "cluster". |
| svm | svm | |
| sync_common_snapshot_schedule | sync_common_snapshot_schedule | Schedule used to create common Snapshot copies for synchronous relationships. |
| sync_type | string | |
| throttle | integer | Throttle in KB/s. Default to unlimited. |
| transfer_schedule | transfer_schedule | The schedule used to update asynchronous relationships. |
| type | string | |
| uuid | string | |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "comment": "string",
  "identity_preservation": "full",
  "name": "Asynchronous",
  "retention": {
    "count": 7,
    "creation_schedule": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "weekly",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "label": "hourly",
    "prefix": "string"
  },
  "scope": "svm",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "sync_common_snapshot_schedule": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "weekly",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "sync_type": "sync",
  "throttle": 0,
```

```

"transfer_schedule": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "weekly",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"type": "async",
"uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
}

```

Response

Status: 202, Accepted

| Name | Type | Description |
|------|--------------------------|-------------|
| job | job_link | |

Example response

```

{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}

```

Error

Status: Default

ONTAP Error Response codes

| Error code | Description |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13303842 | SnapMirror policy is not supported. |
| 13303843 | Conflicting values between SnapMirror policy and SnapMirror relationships for either 'transfer_schedule, throttle or identity_preservation' properties |
| 13303850 | Invalid input parameter |
| 13303887 | Maximum number of allowed retention rules reached |

| Name | Type | Description |
|-------|-----------------------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

creation_schedule

Schedule used to create Snapshot copies on the destination for long term retention.

| Name | Type | Description |
|--------|------------------------|-------------------|
| _links | _links | |
| name | string | Job schedule name |
| uuid | string | Job schedule UUID |

snapmirror_policy_rule

SnapMirror policy rule for retention.

| Name | Type | Description |
|-------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| count | integer | Number of Snapshot copies to be kept for retention. |
| creation_schedule | creation_schedule | Schedule used to create Snapshot copies on the destination for long term retention. |
| label | string | Snapshot copy label |
| prefix | string | Specifies the prefix for the Snapshot copy name to be created as per the schedule. If no value is specified, then the label is used as the prefix. |

svm

| Name | Type | Description |
|--------|------------------------|-----------------------------------|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

sync_common_snapshot_schedule

Schedule used to create common Snapshot copies for synchronous relationships.

| Name | Type | Description |
|--------|------------------------|-------------------|
| _links | _links | |
| name | string | Job schedule name |
| uuid | string | Job schedule UUID |

transfer_schedule

The schedule used to update asynchronous relationships.

| Name | Type | Description |
|--------|------------------------|-------------------|
| _links | _links | |
| name | string | Job schedule name |
| uuid | string | Job schedule UUID |

snapmirror_policy

SnapMirror policy information

| Name | Type | Description |
|-----------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| _links | _links | |
| comment | string | Comment associated with the policy. |
| identity_preservation | string | Specifies which configuration of the source SVM is replicated to the destination. This property is applicable only for SVM data protection and async policies. |
| name | string | |

| Name | Type | Description |
|-------------------------------|-------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| network_compression_enabled | boolean | Specifies whether network compression is enabled for transfers. This is applicable only to async policies. |
| retention | array[snapmirror_policy_rule] | Policy on Snapshot copy retention. This is applicable only to async policies. |
| scope | string | Set to "svm" for policies owned by an SVM, otherwise set to "cluster". |
| svm | svm | |
| sync_common_snapshot_schedule | sync_common_snapshot_schedule | Schedule used to create common Snapshot copies for synchronous relationships. |
| sync_type | string | |
| throttle | integer | Throttle in KB/s. Default to unlimited. |
| transfer_schedule | transfer_schedule | The schedule used to update asynchronous relationships. |
| type | string | |
| uuid | string | |

job_link

| Name | Type | Description |
|--------|------------------------|-------------------------------------------------------------------------------------------|
| _links | _links | |
| uuid | string | The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation. |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|------------------------------------------|---------------------------------------------|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

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