

Manage SnapMirror policies

ONTAP 9.13.1 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 "async" and "sync". When applied to a SnapMirror relationship, the SnapMirror policy controls the behavior of the relationship and specifies the configuration attributes for that relationship. The policy type "async" can be associated with a SnapMirror relationship that has either the FlexVol volume or FlexGroup volume or SVM as the endpoint. The policy type "sync" can be associated with a SnapMirror relationship that has FlexVol volume or a Consistency Group as the endpoint. The policy type "sync" can have a "sync_type" of either "sync", "strict_sync" or "automated_failover". If the "sync_type" is "sync" then a write success is returned to the client after writing the data to the primary endpoint and before writing the data to the secondary endpoint. If the "sync_type" is "strict_sync" then a write success is returned to the client after writing the data to the both primary and secondary endpoints. The "sync_type" of "automated_failover" can be associated with a SnapMirror relationship that has Consistency Group as the endpoint.

Mapping of SnapMirror policies from CLI to REST

CLI	REST
mirror-vault	async
async-mirror w/	async w/
all_source_snapshots	copy_all_source_snapshots
async-mirror w/o	async w/
all_source_snapshots	copy_latest_source_snapshot
vault	async w/
	create_snapshot_on_source

CLI	REST	sync_type
sync-mirror	sync	sync
strict-sync-mirror	sync	strict_sync
automated-failover	sync	automated_failover

Retrieve SnapMirror async and sync policy types

GET /snapmirror/policies

Introduced In: 9.6

Retrieves SnapMirror policies of type "async" and "sync".

Related ONTAP commands

• snapmirror policy show

Example

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

GET "/api/snapmirror/policies"

Learn more

• DOC /snapmirror/policies

Parameters

Name	Туре	In	Required	Description
type	string	query	False	Filter by type
uuid	string	query	False	Filter by uuid
throttle	integer	query	False	Filter by throttle
identity_preservation	string	query	False	Filter by identity_preservation
transfer_schedule.na me	string	query	False	Filter by transfer_schedule.n ame
transfer_schedule.uu id	string	query	False	Filter by transfer_schedule.u uid
name	string	query	False	Filter by name
create_snapshot_on _source	boolean	query	False	Filter by create_snapshot_on _source • Introduced in: 9.11

Name	Туре	In	Required	Description
copy_all_source_sn apshots	boolean	query	False	Filter by copy_all_source_sn apshots • Introduced in: 9.10
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
sync_type	string	query	False	Filter by sync_type
copy_latest_source_ snapshot	boolean	query	False	Filter by copy_latest_source_ snapshot • Introduced in: 9.11
scope	string	query	False	Filter by scope
sync_common_snap shot_schedule.name	string	query	False	Filter by sync_common_snap shot_schedule.name
sync_common_snap shot_schedule.uuid	string	query	False	Filter by sync_common_snap shot_schedule.uuid
retention.preserve	boolean	query	False	Filter by retention.preserve • Introduced in: 9.13
retention.label	string	query	False	Filter by retention.label
retention.period	string	query	False	Filter by retention.period • Introduced in: 9.11

Name	Туре	In	Required	Description
retention.creation_sc hedule.name	string	query	False	Filter by retention.creation_s chedule.name
retention.creation_sc hedule.uuid	string	query	False	Filter by retention.creation_s chedule.uuid
retention.count	integer	query	False	Filter by retention.count
retention.warn	integer	query	False	Filter by retention.warn • Introduced in: 9.13
retention.prefix	string	query	False	Filter by retention.prefix
comment	string	query	False	Filter by comment
rpo	integer	query	False	• Introduced in: 9.10
network_compressio n_enabled	boolean	query	False	Filter by network_compressio n_enabled
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. • Default value: 1

Name	Туре	In	Required	Description
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. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Туре	Description
_links	_links	
num_records	integer	Number of records
records	array[snapmirror_policy]	

```
" links": {
  "next": {
   "href": "/api/resourcelink"
  },
  "self": {
   "href": "/api/resourcelink"
  }
},
"num records": 1,
"records": {
  " links": {
    "self": {
     "href": "/api/resourcelink"
  },
  "comment": "string",
  "copy all source snapshots": 1,
  "copy_latest_source_snapshot": 1,
  "create snapshot on source": "",
  "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",
    "period": "P30D",
    "prefix": "string",
    "preserve": 1,
    "warn": 4
  },
  "rpo": 0,
  "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	Туре	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	Туре	Description
href	string	

_links

Name	Туре	Description
next	href	
self	href	

_links

Name	Туре	Description
self	href	

creation_schedule

Schedule used to create Snapshot copies on the destination for long term retention. Only cron schedules are supported for SnapMirror.

Name	Туре	Description
_links	_links	
name	string	Job schedule name
uuid	string	Job schedule UUID

snapmirror_policy_rule

SnapMirror policy rule for retention.

Name	Туре	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. Only cron schedules are supported for SnapMirror.
label	string	Snapshot copy label

Name	Туре	Description
period	string	Specifies the duration for which the Snapshot copies are locked. The retention period value represents a duration and must be in the ISO-8601 duration format. Years, months, days, hours, minutes, and seconds are represented as "P <num>Y","P<num>M","P<num>D","PT<num>H","PT<num>M" and "PT<num>S". Value "infinite" is also a valid input for Flexvol volumes and FlexGroup volumes. A duration which combines different periods is not supported, for example "P1Y10M" is not supported. The range of supported retention period values is between 1 second to infinite.</num></num></num></num></num></num> <
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.
preserve	boolean	Specifies the behavior when the Snapshot copy retention count is reached on the SnapMirror destination for the rule. The default value is false, which means that the oldest Snapshot copy is deleted to make room for new ones but only if the number of Snapshot copies has exceeded the retention count specified in the 'count' property. When set to true and where the Snapshot copies have reached the retention count, an incremental SnapMirror transfer will fail or if the rule has a schedule, Snapshot copies will be no longer be created on the SnapMirror destination.

Name	Туре	Description
warn	integer	Specifies the warning threshold count for the rule. The default value is zero. When set to a value greater than zero, an event is generated after the number of Snapshot copies (for the particular rule) retained on a SnapMirror destination reaches the specified warning limit. The preserve property for the rule must be true in order to set the warn property to a value greater than zero.

svm

Name	Туре	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	Туре	Description
_links	_links	
name	string	Job schedule name
uuid	string	Job schedule UUID

transfer_schedule

The schedule used to update asynchronous relationships. Only cron schedules are supported for SnapMirror.

Name	Туре	Description
_links	_links	
name	string	Job schedule name
uuid	string	Job schedule UUID

snapmirror policy

SnapMirror policy information. SnapMirror policy can either be of type "async", "sync" or "continuous". The policy type "async" can be associated with a SnapMirror relationship that has either the FlexVol volume or FlexGroup volume or SVM as the endpoint. The policy type "sync" along with "sync type" as "sync" or "strict sync" can be associated with a SnapMirror relationship that has FlexVol volume as the endpoint. The policy type "sync" can have a "sync_type" of either "sync", "strict_sync" or "automated failover". If the "sync type" is "sync" then a write success is returned to the client after writing the data to the source endpoint and before writing the data to the destination endpoint. If the "sync type" is "strict sync" then a write success is returned to the client after writing the data to the both source and destination endpoints. If the "sync type" is "automated failover" then the policy can be associated with a SnapMirror relationship that has Consistency Group as the endpoint. Use the "sync" policy with "sync type" as "automated failover" to establish SnapMirror relationships for business continuity usecases. SnapMirror relationships with policy type as "sync" and "sync type" as "automated failover" can be monitored by the Mediator, if configured. In case the source Consistency Group endpoint is not reachable, the Mediator may trigger a failover to the destination Consistency Group endpoint. A policy of type "continuous" can be associated with SnapMirror relationships that have either ONTAP S3 buckets or NON-ONTAP object stores as endpoints. This type of policy is used for FabricLink owned targets.

Name	Туре	Description
_links	_links	
comment	string	Comment associated with the policy.
copy_all_source_snapshots	boolean	Specifies that all the source Snapshot copies (including the one created by SnapMirror before the transfer begins) should be copied to the destination on a transfer. "Retention" properties cannot be specified along with this property. This is applicable only to async policies. Property can only be set to 'true'.
copy_latest_source_snapshot	boolean	Specifies that the latest source Snapshot copy (created by SnapMirror before the transfer begins) should be copied to the destination on a transfer. "Retention" properties cannot be specified along with this property. This is applicable only to async policies. Property can only be set to 'true'.

Name	Туре	Description
create_snapshot_on_source	boolean	Specifies whether a new Snapshot copy should be created on the source at the beginning of an update or resync operation. This is applicable only to async policies. Property can only be set to 'false'.
identity_preservation	string	Specifies which configuration of the source SVM is replicated to the destination SVM. This property is applicable only for SVM data protection with "async" policy type.
name	string	Name of the policy.
network_compression_enabled	boolean	Specifies whether network compression is enabled for transfers. This is applicable only to the policies of type "async".
retention	array[snapmirror_policy_rule]	Rules for Snapshot copy retention.
rpo	integer	Specifies the duration of time for which a change to be propagated to a mirror should be delayed, in seconds. This is an intentional propagation delay between mirrors and is configurable down to zero, which means an immediate propagation. This is supported for policies of type 'continuous'.
scope	string	Set to "svm" for policies owned by an SVM, otherwise set to "cluster".
svm	svm	
sync_common_snapshot_schedul e	sync_common_snapshot_schedul e	Schedule used to create common Snapshot copies for synchronous relationships.
sync_type	string	

Name	Туре	Description
throttle	integer	Throttle in KB/s. Default to unlimited.
transfer_schedule	transfer_schedule	The schedule used to update asynchronous relationships. Only cron schedules are supported for SnapMirror.
type	string	
uuid	string	

error_arguments

Name	Туре	Description
code	string	Argument code
message	string	Message argument

error

Name	Туре	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

Introduced In: 9.6

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 notes

- 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" and "transfer schedule" are not applicable for "sync" type policies.
- The properties "copy_all_source_snapshots", "copy_latest_source_snapshot", and "create snapshot on source" are mutually exclusive.
- The properties "copy_all_source_snapshots", "copy_latest_source_snapshot", and "create_snapshot_on_source" are not applicable for "sync" type policies.
- No "retention" properties can be specified if "copy_all_source_snapshots" or 'copy_latest_source_snapshot' is specified.
- The properties "retention.creation_schedule" and "retention.prefix" are not applicable for "sync" type policies.
- The property "retention.creation_schedule" is not applicable for "async" policies with "create snapshot on source" set to "false".
- 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.
- The property "transfer_schedule" cannot be set to null (no-quotes) during SnapMirror policy POST.
- The properties "retention.label" and "retention.count" must be specified for "async" policies with "create_snapshot_on_source" set to "false".
- The property "rentention.warn" is not supported for a policy when the "retention.preserve" property is false.
- The property "retention.warn" value must be less than the property "retention.count" value for a rule in a policy.

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 two sets of retention values, one with a creation_schedule

```
POST "/api/snapmirror/policies" '{"name": "policy_ret", "svm": {"name":
"vs1"}, "retention": [{"label": "weekly", "count": "2",
"creation_schedule": {"name": "weekly"}}, {"label":"daily",
"count":"7"}]}'
```

Creating a SnapMirror policy of type "async"

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

Creating a SnapMirror policy of type "async" which replicates all Snapshot copies

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

Creating a SnapMirror policy of type "async" which replicates latest Snapshot copy

```
POST "/api/snapmirror/policies" '{"name": "newPolicy2", "svm":{"name": "vs1"}, "type": "async", "copy_latest_source_snapshot": "true"}'
```

Creating a SnapMirror policy of type "async" which does not create Snapshot copies on source

```
POST "/api/snapmirror/policies" '{"name": "newPolicy", "svm":{"name":
"vs1"}, "type": "async", "create_snapshot_on_source": "false",
"retention": [{"label": "daily", "count": 7}]}'
```

Creating a SnapMirror policy of type "sync" with sync type as "automated failover"

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

Creating a SnapMirror policy of type "async" with two sets of retention values and retention periods

```
POST "/api/snapmirror/policies" '{"name": "policy_ret", "svm": {"name":
"vs1"}, "retention": [{"label": "weekly", "count": "2", "period": "P7D"},
{"label":"daily", "count":"7", "period": "PT3H"}]}'
```

Creating a SnapMirror policy of type "async" with retention value as "infinite"

```
POST "/api/snapmirror/policies" '{"name": "policy_ret", "svm": {"name":
"vs1"}, "retention": [{"label": "weekly", "count": "5", "period":
"infinite"}]}'
```

Creating a SnapMirror policy of type "async" with properties retention preserve as true and retention warn as 3.

```
POST "/api/snapmirror/policies" '{"name": "policy_ret", "svm": {"name":
"vs1"}, "retention": [{"label": "weekly", "count": "5", "preserve": true,
"warn": 3}]}'
```

Learn more

DOC /snapmirror/policies

Parameters

Name	Туре	In	Required	Description
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:

Name	Туре	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. • Default value: 1 • Max value: 120 • Min value: 0

Request Body

Name	Туре	Description
_links	_links	
comment	string	Comment associated with the policy.

Name	Туре	Description
copy_all_source_snapshots	boolean	Specifies that all the source Snapshot copies (including the one created by SnapMirror before the transfer begins) should be copied to the destination on a transfer. "Retention" properties cannot be specified along with this property. This is applicable only to async policies. Property can only be set to 'true'.
copy_latest_source_snapshot	boolean	Specifies that the latest source Snapshot copy (created by SnapMirror before the transfer begins) should be copied to the destination on a transfer. "Retention" properties cannot be specified along with this property. This is applicable only to async policies. Property can only be set to 'true'.
create_snapshot_on_source	boolean	Specifies whether a new Snapshot copy should be created on the source at the beginning of an update or resync operation. This is applicable only to async policies. Property can only be set to 'false'.
identity_preservation	string	Specifies which configuration of the source SVM is replicated to the destination SVM. This property is applicable only for SVM data protection with "async" policy type.
name	string	Name of the policy.
network_compression_enabled	boolean	Specifies whether network compression is enabled for transfers. This is applicable only to the policies of type "async".
retention	array[snapmirror_policy_rule]	Rules for Snapshot copy retention.

Name	Туре	Description
гро	integer	Specifies the duration of time for which a change to be propagated to a mirror should be delayed, in seconds. This is an intentional propagation delay between mirrors and is configurable down to zero, which means an immediate propagation. This is supported for policies of type 'continuous'.
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. Only cron schedules are supported for SnapMirror.
type	string	
uuid	string	

```
" links": {
  "self": {
    "href": "/api/resourcelink"
 }
} ,
"comment": "string",
"copy all source snapshots": 1,
"copy latest source snapshot": 1,
"create snapshot on source": "",
"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",
  "period": "P30D",
  "prefix": "string",
  "preserve": 1,
  "warn": 4
},
"rpo": 0,
"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": "lcd8a442-86d1-11e0-aelc-123478563412"
},
"sync_type": "sync",
"throttle": 0,
"transfer_schedule": {
    "_links": {
        "self": {
            "href": "/api/resourcelink"
        }
},
        "name": "weekly",
        "uuid": "lcd8a442-86d1-11e0-aelc-123478563412"
},
"type": "async",
"uuid": "4ea7a442-86d1-11e0-aelc-123478563412"
}
```

Response

```
Status: 202, Accepted
```

Name	Туре	Description
job	job_link	

Example response

Headers

Name	Description	Туре
Location	Useful for tracking the resource location	string

Error

Status: Default

ONTAP Error Response codes

Error code	Description
6619714	Schedule specified is an interval schedule. SnapMirror does not support interval schedules.
	13303850
Invalid input parameter	
13303887	Failed to create SnapMirror policy. Reason: Maximum number of allowed retention rules reached
	13304083
The specified property is not supported because all nodes in the cluster are not capable of supporting this property.	
13304084	Properties specified are mutually exclusive. Provide only one property.
	13304085
The specified property does not support the specified value.	
13304092	Input value of the retention period property is invalid. For relationships with FlexVol volume or FlexGroup volume destinations, the duration must be in ISO 6801 format or can be infinite. For relationships with object store destinations, only duration values with Y, M or D and supported and must be in the specified range.
	6621045
The property rentention.warn is not supported for a policy when the retention.preserve property is false.	6621067

Name	Туре	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	Туре	Description
href	string	

_links

Name	Туре	Description
self	href	

creation_schedule

Schedule used to create Snapshot copies on the destination for long term retention. Only cron schedules are supported for SnapMirror.

Name	Туре	Description
_links	_links	
name	string	Job schedule name
uuid	string	Job schedule UUID

snapmirror_policy_rule

SnapMirror policy rule for retention.

Name	Туре	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. Only cron schedules are supported for SnapMirror.
label	string	Snapshot copy label

Name	Туре	Description
period	string	Specifies the duration for which the Snapshot copies are locked. The retention period value represents a duration and must be in the ISO-8601 duration format. Years, months, days, hours, minutes, and seconds are represented as "P <num>Y","P<num>M","P<num>D","PT<num>H","PT<num>M" and "PT<num>S". Value "infinite" is also a valid input for Flexvol volumes and FlexGroup volumes. A duration which combines different periods is not supported, for example "P1Y10M" is not supported. The range of supported retention period values is between 1 second to infinite.</num></num></num></num></num></num> <
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.
preserve	boolean	Specifies the behavior when the Snapshot copy retention count is reached on the SnapMirror destination for the rule. The default value is false, which means that the oldest Snapshot copy is deleted to make room for new ones but only if the number of Snapshot copies has exceeded the retention count specified in the 'count' property. When set to true and where the Snapshot copies have reached the retention count, an incremental SnapMirror transfer will fail or if the rule has a schedule, Snapshot copies will be no longer be created on the SnapMirror destination.

Name	Туре	Description
warn	integer	Specifies the warning threshold count for the rule. The default value is zero. When set to a value greater than zero, an event is generated after the number of Snapshot copies (for the particular rule) retained on a SnapMirror destination reaches the specified warning limit. The preserve property for the rule must be true in order to set the warn property to a value greater than zero.

svm

Name	Туре	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	Туре	Description
_links	_links	
name	string	Job schedule name
uuid	string	Job schedule UUID

transfer_schedule

The schedule used to update asynchronous relationships. Only cron schedules are supported for SnapMirror.

Name	Туре	Description
_links	_links	
name	string	Job schedule name
uuid	string	Job schedule UUID

snapmirror policy

SnapMirror policy information. SnapMirror policy can either be of type "async", "sync" or "continuous". The policy type "async" can be associated with a SnapMirror relationship that has either the FlexVol volume or FlexGroup volume or SVM as the endpoint. The policy type "sync" along with "sync type" as "sync" or "strict sync" can be associated with a SnapMirror relationship that has FlexVol volume as the endpoint. The policy type "sync" can have a "sync_type" of either "sync", "strict_sync" or "automated failover". If the "sync type" is "sync" then a write success is returned to the client after writing the data to the source endpoint and before writing the data to the destination endpoint. If the "sync type" is "strict sync" then a write success is returned to the client after writing the data to the both source and destination endpoints. If the "sync type" is "automated failover" then the policy can be associated with a SnapMirror relationship that has Consistency Group as the endpoint. Use the "sync" policy with "sync type" as "automated failover" to establish SnapMirror relationships for business continuity usecases. SnapMirror relationships with policy type as "sync" and "sync type" as "automated failover" can be monitored by the Mediator, if configured. In case the source Consistency Group endpoint is not reachable, the Mediator may trigger a failover to the destination Consistency Group endpoint. A policy of type "continuous" can be associated with SnapMirror relationships that have either ONTAP S3 buckets or NON-ONTAP object stores as endpoints. This type of policy is used for FabricLink owned targets.

Name	Туре	Description
_links	_links	
comment	string	Comment associated with the policy.
copy_all_source_snapshots	boolean	Specifies that all the source Snapshot copies (including the one created by SnapMirror before the transfer begins) should be copied to the destination on a transfer. "Retention" properties cannot be specified along with this property. This is applicable only to async policies. Property can only be set to 'true'.
copy_latest_source_snapshot	boolean	Specifies that the latest source Snapshot copy (created by SnapMirror before the transfer begins) should be copied to the destination on a transfer. "Retention" properties cannot be specified along with this property. This is applicable only to async policies. Property can only be set to 'true'.

Name	Туре	Description
create_snapshot_on_source	boolean	Specifies whether a new Snapshot copy should be created on the source at the beginning of an update or resync operation. This is applicable only to async policies. Property can only be set to 'false'.
identity_preservation	string	Specifies which configuration of the source SVM is replicated to the destination SVM. This property is applicable only for SVM data protection with "async" policy type.
name	string	Name of the policy.
network_compression_enabled	boolean	Specifies whether network compression is enabled for transfers. This is applicable only to the policies of type "async".
retention	array[snapmirror_policy_rule]	Rules for Snapshot copy retention.
rpo	integer	Specifies the duration of time for which a change to be propagated to a mirror should be delayed, in seconds. This is an intentional propagation delay between mirrors and is configurable down to zero, which means an immediate propagation. This is supported for policies of type 'continuous'.
scope	string	Set to "svm" for policies owned by an SVM, otherwise set to "cluster".
svm	svm	
sync_common_snapshot_schedul e	sync_common_snapshot_schedul e	Schedule used to create common Snapshot copies for synchronous relationships.
sync_type	string	

Name	Туре	Description
throttle	integer	Throttle in KB/s. Default to unlimited.
transfer_schedule	transfer_schedule	The schedule used to update asynchronous relationships. Only cron schedules are supported for SnapMirror.
type	string	
uuid	string	

job_link

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

error_arguments

Name	Туре	Description
code	string	Argument code
message	string	Message argument

error

Name	Туре	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}

Introduced In: 9.6

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	Туре	In	Required	Description
uuid	string	path	True	Policy UUID

Name	Туре	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. • Default value: 1 • Max value: 0

Response

Status: 202, Accepted

Name	Туре	Description
job	job_link	

Example response

Error

```
Status: Default, Error
```

Name	Туре	Description
error	error	

Example error

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

Definitions

See Definitions

	_
h	rof
ш	rei

Name	Туре	Description
href	string	

_links

Name	Туре	Description
self	href	

job_link

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

error_arguments

Name	Туре	Description
code	string	Argument code
message	string	Message argument

error

Name	Туре	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}

Introduced In: 9.6

Retrieves a specific SnapMirror policy.

Example

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

Learn more

• DOC /snapmirror/policies

Parameters

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

Response

Status: 200, Ok

Name	Туре	Description
_links	_links	
comment	string	Comment associated with the policy.
copy_all_source_snapshots	boolean	Specifies that all the source Snapshot copies (including the one created by SnapMirror before the transfer begins) should be copied to the destination on a transfer. "Retention" properties cannot be specified along with this property. This is applicable only to async policies. Property can only be set to 'true'.

Name	Туре	Description
copy_latest_source_snapshot	boolean	Specifies that the latest source Snapshot copy (created by SnapMirror before the transfer begins) should be copied to the destination on a transfer. "Retention" properties cannot be specified along with this property. This is applicable only to async policies. Property can only be set to 'true'.
create_snapshot_on_source	boolean	Specifies whether a new Snapshot copy should be created on the source at the beginning of an update or resync operation. This is applicable only to async policies. Property can only be set to 'false'.
identity_preservation	string	Specifies which configuration of the source SVM is replicated to the destination SVM. This property is applicable only for SVM data protection with "async" policy type.
name	string	Name of the policy.
network_compression_enabled	boolean	Specifies whether network compression is enabled for transfers. This is applicable only to the policies of type "async".
retention	array[snapmirror_policy_rule]	Rules for Snapshot copy retention.
rpo	integer	Specifies the duration of time for which a change to be propagated to a mirror should be delayed, in seconds. This is an intentional propagation delay between mirrors and is configurable down to zero, which means an immediate propagation. This is supported for policies of type 'continuous'.
scope	string	Set to "svm" for policies owned by an SVM, otherwise set to "cluster".
svm	svm	

Name	Туре	Description
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. Only cron schedules are supported for SnapMirror.
type	string	
uuid	string	

```
" links": {
  "self": {
    "href": "/api/resourcelink"
 }
},
"comment": "string",
"copy all source snapshots": 1,
"copy latest source snapshot": 1,
"create snapshot on source": "",
"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",
  "period": "P30D",
  "prefix": "string",
  "preserve": 1,
  "warn": 4
},
"rpo": 0,
"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	Туре	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	Туре	Description
href	string	

_links

Name	Туре	Description
self	href	

creation_schedule

Schedule used to create Snapshot copies on the destination for long term retention. Only cron schedules are supported for SnapMirror.

Name	Туре	Description
_links	_links	
name	string	Job schedule name
uuid	string	Job schedule UUID

snapmirror_policy_rule

SnapMirror policy rule for retention.

Name	Туре	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. Only cron schedules are supported for SnapMirror.
label	string	Snapshot copy label

Name	Туре	Description
period	string	Specifies the duration for which the Snapshot copies are locked. The retention period value represents a duration and must be in the ISO-8601 duration format. Years, months, days, hours, minutes, and seconds are represented as "P <num>Y","P<num>M","P<num>D","PT<num>H","PT<num>M" and "PT<num>S". Value "infinite" is also a valid input for Flexvol volumes and FlexGroup volumes. A duration which combines different periods is not supported, for example "P1Y10M" is not supported. The range of supported retention period values is between 1 second to infinite.</num></num></num></num></num></num> <
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.
preserve	boolean	Specifies the behavior when the Snapshot copy retention count is reached on the SnapMirror destination for the rule. The default value is false, which means that the oldest Snapshot copy is deleted to make room for new ones but only if the number of Snapshot copies has exceeded the retention count specified in the 'count' property. When set to true and where the Snapshot copies have reached the retention count, an incremental SnapMirror transfer will fail or if the rule has a schedule, Snapshot copies will be no longer be created on the SnapMirror destination.

Name	Туре	Description
warn	integer	Specifies the warning threshold count for the rule. The default value is zero. When set to a value greater than zero, an event is generated after the number of Snapshot copies (for the particular rule) retained on a SnapMirror destination reaches the specified warning limit. The preserve property for the rule must be true in order to set the warn property to a value greater than zero.

svm

Name	Туре	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	Туре	Description
_links	_links	
name	string	Job schedule name
uuid	string	Job schedule UUID

transfer_schedule

The schedule used to update asynchronous relationships. Only cron schedules are supported for SnapMirror.

Name	Туре	Description
_links	_links	
name	string	Job schedule name
uuid	string	Job schedule UUID

error arguments

Name	Туре	Description
code	string	Argument code
message	string	Message argument

error

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

Update the SnapMirror policy

PATCH /snapmirror/policies/{uuid}

Introduced In: 9.6

Updates the SnapMirror policy.

Important notes

- 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 it replaces 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 but not vice-versa. For example, the threshold value of the "identity_preservation" property can be changed from "full" to "exclude_network_config", but cannot be increased from "exclude_network_and_protocol_config" to "exclude_network_config" to "full". The threshold value of the "identity_preservation" cannot be changed to "exclude network and protocol config" for IDP SVMDR.
- The policy properties "copy_all_source_snapshots", "copy_latest_source_snapshot", and "create_snapshot_on_source" cannot be modified.
- No "retention" properties can be modified if the "copy_all_source_snapshots" or "copy_latest_source_snapshot" property is present in the policy.
- · Replacing or deleting all retention rules of a policy that has the "create snapshot on source" property set

to false in a single API call is not supported.

- Modifying the property "retention.label" for all retention rules of a policy that has the "create snapshot on source" property set to false in a single API call is not supported.
- To remove a transfer_schedule on a SnapMirror policy set the "transfer_schedule" to null (no-quotes) during SnapMirror policy PATCH.

Related ONTAP commands

snapmirror policy modify

Example

Updating the "retention" property to add rules to a policy without any rules.

```
PATCH "/api/snapmirror/policies/fe65686d-00dc-11e9-b5fb-0050568e3f83"
'{"retention": [{"label": "newlabel", "count": 2}, {"label": "weekly",
"count": 2, "creation_schedule": {"name": "weekly"}}, {"label": "daily",
"count": 14}]}'
```

Updating the "retention" property to add rules to a policy with existing rules {"retention": [{"label": "oldLabel1", "count": 2}, {"label": "oldLabel2", "count": 5}]

```
PATCH "/api/snapmirror/policies/fe65686d-00dc-11e9-b5fb-0050568e3f83"
'{"retention": [{"label": "oldLabel1", "count": 2}, {"label": "oldLabel2",
"count": 5}, {"label": "newlabel", "count": 3}, {"label": "weekly",
"count": 1}]}'
```

Updating the "retention" property to remove a rule (oldLabel1) and add new rule to a policy with existing rules {"retention": [{"label": "oldLabel1", "count": 2}, {"label": "oldLabel2", "count": 3}]

```
PATCH "/api/snapmirror/policies/fe65686d-00dc-11e9-b5fb-0050568e3f83"
'{"retention": [{"label": "oldLabel2", "count": 3}, {"label": "newlabel",
"count": 2}]}'
```

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"}'
```

Removing the SnapMirror transfer_schedule for a SnapMirror policy. Transfer_schedule can be specified as UUID or name or both with the value set to null (no-quotes).

```
PATCH "/api/snapmirror/policies/98bb2608-fc60-11e8-aa13-005056a707ff/"
'{"transfer_schedule":{"uuid":null, "name":null}}'
```

Updating the "retention" property to have rentention.preserve and retention.warn for existing rule.

```
PATCH "/api/snapmirror/policies/fe65686d-00dc-11e9-b5fb-0050568e3f83" '{"retention": [{"label": "oldLabel1", "count": 3, "preserve": true, "warn": 2}]}'
```

Learn more

• DOC /snapmirror/policies

Parameters

Name	Туре	In	Required	Description
uuid	string	path	True	Policy UUID

Name	Туре	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. • Default value: 1 • Max value: 120 • Min value: 0

Request Body

Name	Туре	Description
_links	_links	
comment	string	Comment associated with the policy.

Name	Туре	Description
copy_all_source_snapshots	boolean	Specifies that all the source Snapshot copies (including the one created by SnapMirror before the transfer begins) should be copied to the destination on a transfer. "Retention" properties cannot be specified along with this property. This is applicable only to async policies. Property can only be set to 'true'.
copy_latest_source_snapshot	boolean	Specifies that the latest source Snapshot copy (created by SnapMirror before the transfer begins) should be copied to the destination on a transfer. "Retention" properties cannot be specified along with this property. This is applicable only to async policies. Property can only be set to 'true'.
create_snapshot_on_source	boolean	Specifies whether a new Snapshot copy should be created on the source at the beginning of an update or resync operation. This is applicable only to async policies. Property can only be set to 'false'.
identity_preservation	string	Specifies which configuration of the source SVM is replicated to the destination SVM. This property is applicable only for SVM data protection with "async" policy type.
name	string	Name of the policy.
network_compression_enabled	boolean	Specifies whether network compression is enabled for transfers. This is applicable only to the policies of type "async".
retention	array[snapmirror_policy_rule]	Rules for Snapshot copy retention.

Name	Туре	Description
rpo	integer	Specifies the duration of time for which a change to be propagated to a mirror should be delayed, in seconds. This is an intentional propagation delay between mirrors and is configurable down to zero, which means an immediate propagation. This is supported for policies of type 'continuous'.
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. Only cron schedules are supported for SnapMirror.
type	string	
uuid	string	

```
" links": {
  "self": {
   "href": "/api/resourcelink"
 }
},
"comment": "string",
"copy all source snapshots": 1,
"copy latest source snapshot": 1,
"create snapshot on source": "",
"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",
  "period": "P30D",
  "prefix": "string",
  "preserve": 1,
  "warn": 4
},
"rpo": 0,
"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"
```

Response

```
Status: 202, Accepted
```

Name	Туре	Description
job	job_link	

Example response

Error

Status: Default

ONTAP Error Response codes

Error code	Description
6619714	Schedule specified is an interval schedule. SnapMirror does not support interval schedules.
	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	Failed to create SnapMirror policy. Reason: Maximum number of allowed retention rules reached
	13304050
Retention cannot be empty for a SnapMirror policy with 'create_snapshot_on_source' set to false.	
13304092	Input value of the retention period property is invalid. For relationships with FlexVol volume or FlexGroup volume destinations, the duration must be in ISO 6801 format or can be infinite. For relationships with object store destinations, only duration values with Y, M or D and supported and must be in the specified range.
	6621045
The property rentention.warn is not supported for a policy when the retention.preserve property is false.	6621067

Name	Туре	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	Туре	Description
href	string	

_links

Name	Туре	Description
self	href	

creation_schedule

Schedule used to create Snapshot copies on the destination for long term retention. Only cron schedules are supported for SnapMirror.

Name	Туре	Description
_links	_links	
name	string	Job schedule name
uuid	string	Job schedule UUID

snapmirror_policy_rule

SnapMirror policy rule for retention.

Name	Туре	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. Only cron schedules are supported for SnapMirror.
label	string	Snapshot copy label

Name	Туре	Description
period	string	Specifies the duration for which the Snapshot copies are locked. The retention period value represents a duration and must be in the ISO-8601 duration format. Years, months, days, hours, minutes, and seconds are represented as "P <num>Y","P<num>M","P<num>D","PT<num>H","PT<num>M" and "PT<num>S". Value "infinite" is also a valid input for Flexvol volumes and FlexGroup volumes. A duration which combines different periods is not supported, for example "P1Y10M" is not supported. The range of supported retention period values is between 1 second to infinite.</num></num></num></num></num></num> <
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.
preserve	boolean	Specifies the behavior when the Snapshot copy retention count is reached on the SnapMirror destination for the rule. The default value is false, which means that the oldest Snapshot copy is deleted to make room for new ones but only if the number of Snapshot copies has exceeded the retention count specified in the 'count' property. When set to true and where the Snapshot copies have reached the retention count, an incremental SnapMirror transfer will fail or if the rule has a schedule, Snapshot copies will be no longer be created on the SnapMirror destination.

Name	Туре	Description
warn	integer	Specifies the warning threshold count for the rule. The default value is zero. When set to a value greater than zero, an event is generated after the number of Snapshot copies (for the particular rule) retained on a SnapMirror destination reaches the specified warning limit. The preserve property for the rule must be true in order to set the warn property to a value greater than zero.

svm

Name	Туре	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	Туре	Description
_links	_links	
name	string	Job schedule name
uuid	string	Job schedule UUID

transfer_schedule

The schedule used to update asynchronous relationships. Only cron schedules are supported for SnapMirror.

Name	Туре	Description
_links	_links	
name	string	Job schedule name
uuid	string	Job schedule UUID

snapmirror policy

SnapMirror policy information. SnapMirror policy can either be of type "async", "sync" or "continuous". The policy type "async" can be associated with a SnapMirror relationship that has either the FlexVol volume or FlexGroup volume or SVM as the endpoint. The policy type "sync" along with "sync type" as "sync" or "strict sync" can be associated with a SnapMirror relationship that has FlexVol volume as the endpoint. The policy type "sync" can have a "sync_type" of either "sync", "strict_sync" or "automated failover". If the "sync type" is "sync" then a write success is returned to the client after writing the data to the source endpoint and before writing the data to the destination endpoint. If the "sync type" is "strict sync" then a write success is returned to the client after writing the data to the both source and destination endpoints. If the "sync type" is "automated failover" then the policy can be associated with a SnapMirror relationship that has Consistency Group as the endpoint. Use the "sync" policy with "sync type" as "automated failover" to establish SnapMirror relationships for business continuity usecases. SnapMirror relationships with policy type as "sync" and "sync type" as "automated failover" can be monitored by the Mediator, if configured. In case the source Consistency Group endpoint is not reachable, the Mediator may trigger a failover to the destination Consistency Group endpoint. A policy of type "continuous" can be associated with SnapMirror relationships that have either ONTAP S3 buckets or NON-ONTAP object stores as endpoints. This type of policy is used for FabricLink owned targets.

Name	Туре	Description
_links	_links	
comment	string	Comment associated with the policy.
copy_all_source_snapshots	boolean	Specifies that all the source Snapshot copies (including the one created by SnapMirror before the transfer begins) should be copied to the destination on a transfer. "Retention" properties cannot be specified along with this property. This is applicable only to async policies. Property can only be set to 'true'.
copy_latest_source_snapshot	boolean	Specifies that the latest source Snapshot copy (created by SnapMirror before the transfer begins) should be copied to the destination on a transfer. "Retention" properties cannot be specified along with this property. This is applicable only to async policies. Property can only be set to 'true'.

Name	Туре	Description
create_snapshot_on_source	boolean	Specifies whether a new Snapshot copy should be created on the source at the beginning of an update or resync operation. This is applicable only to async policies. Property can only be set to 'false'.
identity_preservation	string	Specifies which configuration of the source SVM is replicated to the destination SVM. This property is applicable only for SVM data protection with "async" policy type.
name	string	Name of the policy.
network_compression_enabled	boolean	Specifies whether network compression is enabled for transfers. This is applicable only to the policies of type "async".
retention	array[snapmirror_policy_rule]	Rules for Snapshot copy retention.
гро	integer	Specifies the duration of time for which a change to be propagated to a mirror should be delayed, in seconds. This is an intentional propagation delay between mirrors and is configurable down to zero, which means an immediate propagation. This is supported for policies of type 'continuous'.
scope	string	Set to "svm" for policies owned by an SVM, otherwise set to "cluster".
svm	svm	
sync_common_snapshot_schedul e	sync_common_snapshot_schedul e	Schedule used to create common Snapshot copies for synchronous relationships.
sync_type	string	

Name	Туре	Description
throttle	integer	Throttle in KB/s. Default to unlimited.
transfer_schedule	transfer_schedule	The schedule used to update asynchronous relationships. Only cron schedules are supported for SnapMirror.
type	string	
uuid	string	

job_link

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

error_arguments

Name	Туре	Description
code	string	Argument code
message	string	Message argument

error

Name	Туре	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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