



# **Manage volume efficiency policies**

## REST API reference

NetApp  
September 12, 2025

This PDF was generated from [https://docs.netapp.com/us-en/ontap-restapi-9101/storage\\_volume-efficiency-policies\\_endpoint\\_overview.html](https://docs.netapp.com/us-en/ontap-restapi-9101/storage_volume-efficiency-policies_endpoint_overview.html) on September 12, 2025. Always check [docs.netapp.com](https://docs.netapp.com) for the latest.

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# Manage volume efficiency policies

## Storage volume-efficiency-policies endpoint overview

### Overview

Volume efficiency policies specify information about efficiency policies that are applied to the volume.

### Volume efficiency policy APIs

The following APIs are used to perform operations related to volume efficiency policy information:

&ndash; POST /api/storage/volume-efficiency-policies

&ndash; GET /api/storage/volume-efficiency-policies

&ndash; GET /api/storage/volume-efficiency-policies/{uuid}

&ndash; PATCH /api/storage/volume-efficiency-policies/{uuid}

&ndash; DELETE /api/storage/volume-efficiency-policies/{uuid}

### Examples

#### Creating a volume efficiency policy

The POST operation is used to create a volume efficiency policy with the specified attributes.

```

# The API:
/api/storage/volume-efficiency-policies

# The call:
curl -X POST  "https://<mgmt-ip>/api/storage/volume-efficiency-policies"
-H "accept: application/hal+json" -d '{
  "name": "new_policy",
  "type": "scheduled",
  "schedule": {
    "name": "daily"
  },
  "duration": "2",
  "qos_policy": "best_effort",
  "enabled": "true",
  "comment": "schedule-policy",
  "svm": {
    "name": "vs1"
  }
}

# The response:
HTTP/1.1 201 Created
Date: Tue, 12 Mar 2019 21:20:24 GMT
Server: libzapid-httppd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Location: /api/storage/volume-efficiency-policies/a69d8173-450c-11e9-aa44-005056bbc848
Content-Length: 369
Content-Type: application/json
{
  "num_records": 1,
  "records": [
    {
      "uuid": "a69d8173-450c-11e9-aa44-005056bbc848",
      "svm": {
        "name": "vs1"
      },
      "name": "new_policy",
      "type": "scheduled",
      "schedule": {
        "name": "daily"
      },
      "duration": "2",
      "qos_policy": "best_effort",
      "enabled": "true",
      "comment": "schedule-policy"
    }
  ]
}

```

## Retrieving volume efficiency policy attributes

The GET operation is used to retrieve volume efficiency policy attributes.

```

# The API:
/api/storage/volume-efficiency-policies

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/volume-efficiency-policies" -H
"accept: application/hal+json"

# The response:
HTTP/1.1 200 OK
Date: Tue, 12 Mar 2019 21:17:17 GMT
Server: libzapid-http
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 686
Content-Type: application/json
{
"records": [
{
"uuid": "3c112527-2fe8-11e9-b55e-005056bbf1c8",
"name": "default",
"_links": {
"self": {
"href": "/api/storage/volume-efficiency-policies/3c112527-2fe8-11e9-b55e-005056bbf1c8"
}
}
},
{
"uuid": "3c1c1656-2fe8-11e9-b55e-005056bbf1c8",
"name": "default-1weekly",
"_links": {
"self": {
"href": "/api/storage/volume-efficiency-policies/3c1c1656-2fe8-11e9-b55e-005056bbf1c8"
}
}
},
{
"uuid": "3c228b82-2fe8-11e9-b55e-005056bbf1c8",
"name": "none",
"_links": {
"self": {
"href": "/api/storage/volume-efficiency-policies/3c228b82-2fe8-11e9-b55e-005056bbf1c8"
}
}
}
]
}

```

```

    }
],
"num_records": 3,
"_links": {
  "self": {
    "href": "/api/storage/volume-efficiency-policies/"
  }
}
}

```

## Retrieving the attributes of a specific volume efficiency policy

The GET operation is used to retrieve the attributes of a specific volume efficiency policy.

## The API:

/api/storage/volume-efficiency-policies/{uuid}

## The call:

```
curl -X GET "https://<mgmt-ip>/api/storage/volume-efficiency-policies/3c112527-2fe8-11e9-b55e-005056bbf1c8" -H "accept: application/hal+json"</mgmt-ip>
```

## The response:

```
HTTP/1.1 200 OK Date: Tue, 12 Mar 2019 21:24:48 GMT Server: libzapid-httd X-Content-Type-Options: nosniff Cache-Control: no-cache,no-store,must-revalidate Content-Length: 381 Content-Type: application/json {
"uuid": "3c112527-2fe8-11e9-b55e-005056bbf1c8", "name": "new_policy", "type": "scheduled", "schedule": {
"name": "daily" } "duration": "2", "qos_policy": "best_effort", "enabled": "true", "comment": "schedule-policy", "svm": { "name": "vs1" } "_links": { "self": { "href": "/api/storage/volume-efficiency-policies/3c112527-2fe8-11e9-b55e-005056bbf1c8" } } }
```

### Updating a volume efficiency policy

The PATCH operation is used to update the specific attributes of a volume efficiency policy.

## The API:

/api/storage/volume-efficiency-policies/{uuid}

## The call:

```
curl -X PATCH "https://<mgmt-ip>/api/storage/volume-efficiency-policies/ae9e65c4-4506-11e9-aa44-005056bbc848" -d '{"duration": "3"}' -H "accept: application/hal+json"</mgmt-ip>
```

## The response:

HTTP/1.1 200 OK Date: Tue, 12 Mar 2019 21:27:04 GMT Server: libzapid-httd X-Content-Type-Options: nosniff Cache-Control: no-cache,no-store,must-revalidate Content-Length: 3 Content-Type: application/json

```
### Deleting a volume efficiency policy
The DELETE operation is used to delete a volume efficiency policy.
```

## The API:

/api/storage/volume-efficiency-policies/{uuid}

## The call:

```
curl -X DELETE "https://<mgmt-ip>/api/storage/volume-efficiency-policies/ ae9e65c4-4506-11e9-aa44-005056bbc848" -H "accept: application/hal+json"</mgmt-ip>
```

## The response:

HTTP/1.1 200 OK Date: Tue, 12 Mar 2019 21:19:04 GMT Server: libzapid-httd X-Content-Type-Options: nosniff Cache-Control: no-cache,no-store,must-revalidate Content-Length: 3 Content-Type: application/json

```
[ [ID061fcad47f7675e31f4d26721e45cbbc] ]
= Retrieve volume efficiency policies

[.api-doc-operation .api-doc-operation-get]#GET# [.api-doc-code-
block]#/storage/volume-efficiency-policies`#
*Introduced In:* 9.8

Retrieves a collection of volume efficiency policies.

== Related ONTAP commands

* `volume efficiency policy show`

== Learn more

* xref:{relative_path}storage_volume-efficiency-
policies_endpoint_overview.html[DOC /storage/volume-efficiency-policies]

== Parameters

[cols=5*,options=header]
```

```
| ===

| Name
| Type
| In
| Required
| Description

| svm.uuid
| string
| query
| False
a|Filter by svm.uuid

| svm.name
| string
| query
| False
a|Filter by svm.name

| schedule.name
| string
| query
| False
a|Filter by schedule.name

| name
| string
| query
| False
a|Filter by name

| start_threshold_percent
| integer
| query
| False
a|Filter by start_threshold_percent

| duration
| integer
| query
| False
```

```
a|Filter by duration
```

```
|enabled  
|boolean  
|query  
|False  
a|Filter by enabled
```

```
|qos_policy  
|string  
|query  
|False  
a|Filter by qos_policy
```

```
|type  
|string  
|query  
|False  
a|Filter by type
```

```
|comment  
|string  
|query  
|False  
a|Filter by comment
```

```
|uuid  
|string  
|query  
|False  
a|Filter by uuid
```

```
|fields  
|array[string]  
|query  
|False  
a|Specify the fields to return.
```

```
|max_records  
|integer
```

```

|query
|False
a|Limit the number of records returned.

|return_records
|boolean
|query
|False
a|The default is true for GET calls. When set to false, only the number
of records is returned.

* Default value: 1

|return_timeout
|integer
|query
|False
a|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
a|Order results by specified fields and optional [asc|desc] direction.
Default direction is 'asc' for ascending.

|===
== Response

```

Status: 200, Ok

```

[cols=3*,options=header]
|===
|Name
|Type

```

```

| Description

| _links
| link:#_links[_links]
a|


| num_records
| integer
a|Number of records


| records
| array[link:#volume_efficiency_policy[volume_efficiency_policy]]
a|


| ===

.Example response
[%collapsible%closed]
=====
[source, json, subs=+macros]
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "comment": "string",
      "duration": 5,
      "enabled": 1,
      "name": "default",
      "qos_policy": "string",
      "schedule": {
        "name": "daily"
      },
    }
  ]
}

```

```

  "start_threshold_percent": 30,
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "type": "string",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}
]
}
=====

== Error

```

Status: Default, Error

```

[cols=3*, options=header]
| ====
| Name
| Type
| Description

| error
| link:#error[error]
a

| ====

.Example error
[%collapsible%closed]
=====

[source, json, subs=+macros]
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ]
  }
}

```

```

] ,
"code": "4",
"message": "entry doesn't exist",
"target": "uuid"
}
}

=====

== Definitions

[.api-def-first-level]
.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block
=====

[#href]
[.api-collapsible-fifth-title]
href

[cols=3*,options=header]
| ====
| Name
| Type
| Description

| href
| string
a|
| ====

[#__links]
[.api-collapsible-fifth-title]
_links

[cols=3*,options=header]
| ====
| Name
| Type
| Description

| next
| link:#href[href]
a|
| self

```

```

|link:#href[href]
a|
|====

[#_links]
[.api-collapsible-fifth-title]
_links

[cols=3*,options=header]
|====

| Name
| Type
| Description

|self
|link:#href[href]
a|
|====

[#schedule]
[.api-collapsible-fifth-title]
schedule

[cols=3*,options=header]
|====

| Name
| Type
| Description

| name
| string
a|Schedule at which volume efficiency policies are captured on the SVM.
Some common schedules already defined in the system are hourly, daily,
weekly, at 5 minute intervals, and at 8 hour intervals. Volume efficiency
policies with custom schedules can be referenced.

|====

[#svm]
[.api-collapsible-fifth-title]
svm

```

```
[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
|link:#_links[_links]
a|
a|The name of the SVM.

|uuid
|string
a|The unique identifier of the SVM.

|===
[#volume_efficiency_policy]
[.api-collapsible-fifth-title]
volume_efficiency_policy

[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
|link:#_links[_links]
a|
a|A comment associated with the volume efficiency policy.

|duration
|integer
a|This field is used with the policy type "scheduled" to indicate the allowed duration for a session, in hours. Possible value is a number
```

between 0 and 999 inclusive. Default is unlimited indicated by value 0.

|enabled  
|boolean  
a|Is the volume efficiency policy enabled?

|name  
|string  
a|Name of the volume efficiency policy.

|qos\_policy  
|string  
a|QoS policy for the sis operation. Possible values are background and best\_effort. In background, sis operation will run in background with minimal or no impact on data serving client operations. In best\_effort, sis operations may have some impact on data serving client operations.

|schedule  
|link:#schedule[schedule]  
a|  
  
|start\_threshold\_percent  
|integer  
a|This field is used with the policy type "threshold" to indicate the threshold percentage for triggering the volume efficiency policy. It is mutually exclusive of the schedule.

|svm  
|link:#svm[svm]  
a|  
  
|type  
|string  
a|Type of volume efficiency policy.

|uuid  
|string  
a|Unique identifier of volume efficiency policy.

|====

```
[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments

[cols=3*,options=header]
| ====
| Name
| Type
| Description

| code
| string
a|Argument code

| message
| string
a|Message argument

| ====

[#error]
[.api-collapsible-fifth-title]
error

[cols=3*,options=header]
| ====
| Name
| Type
| Description

| arguments
| array[link:#error_arguments[error_arguments]]
a|Message arguments

| code
| string
a|Error code

| message
| string
```

```
a|Error message
```

```
|target  
|string  
a|The target parameter that caused the error.
```

```
|====
```

```
//end collapsible .Definitions block  
=====
```

```
[[IDf6c6079c7922783761cc1b0dcfa9dd34]]  
= Create a volume efficiency policy
```

```
[.api-doc-operation .api-doc-operation-post]#POST# [.api-doc-code-  
block]#/storage/volume-efficiency-policies`#
```

```
*Introduced In:* 9.8
```

```
Creates a volume efficiency policy.
```

```
== Required properties
```

- \* `svm.uuid` or `svm.name` - Existing SVM in which to create the volume efficiency policy.
- \* `name` - Name for the volume efficiency policy.

```
== Recommended optional properties
```

- \* `type` - Type of volume policy.
- \* `schedule` - Schedule the volume efficiency defined in minutes, hourly, daily and weekly.
- \* `duration` - Indicates the allowed duration for a session for policy type "scheduled".
- \* `start\_threshold\_percent` - Indicates the start threshold percentage for the policy type "threshold". It is mutually exclusive of the schedule.
- \* `qos\_policy` - QoS policy for the sis operation.
- \* `comment` - A comment associated with the volume efficiency policy.
- \* `enabled` - Is the volume efficiency policy enabled?

```
== Default property values
```

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

- \* `type` - scheduled
- \* `enabled` - true
- \* `qos\_policy` - best\_effort

== Related ONTAP commands

- \* `volume efficiency policy create`

== Learn more

- \* [xref:{relative\\_path}storage\\_volume-efficiency-policies\\_endpoint\\_overview.html](#) [DOC /storage/volume-efficiency-policies]

== Parameters

[cols=5\*, options=header]

| ===

| Name

| Type

| In

| Required

| Description

| return\_records

| boolean

| query

| False

a|The default is false. If set to true, the records are returned.

\* Default value:

| ===

== Request Body

[cols=3\*, options=header]

| ===

| Name

| Type

| Description

```
|comment
|string
a|A comment associated with the volume efficiency policy.

|duration
|integer
a|This field is used with the policy type "scheduled" to indicate the
allowed duration for a session, in hours. Possible value is a number
between 0 and 999 inclusive. Default is unlimited indicated by value 0.

|enabled
|boolean
a|Is the volume efficiency policy enabled?

|name
|string
a|Name of the volume efficiency policy.

|qos_policy
|string
a|QoS policy for the sis operation. Possible values are background and
best_effort. In background, sis operation will run in background with
minimal or no impact on data serving client operations. In best_effort,
sis operations may have some impact on data serving client operations.

|schedule
|link:#schedule[schedule]
a|  
  
|start_threshold_percent
|integer
a|This field is used with the policy type "threshold" to indicate the
threshold percentage for triggering the volume efficiency policy. It is
mutually exclusive of the schedule.

|svm
|link:#svm[svm]
a|  
  
|type
```

```

| string
a|Type of volume efficiency policy.

| uuid
| string
a|Unique identifier of volume efficiency policy.

| ===

.Example request
[%collapsible%closed]
=====
[source, json, subs=+macros]
{
  "comment": "string",
  "duration": 5,
  "enabled": 1,
  "name": "default",
  "qos_policy": "string",
  "schedule": {
    "name": "daily"
  },
  "start_threshold_percent": 30,
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "type": "string",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}
=====

== Response

```

Status: 201, Created

```

== Error

```

Status: Default

```

ONTAP Error Response Codes

```

```
| ====
| Error Code | Description
|
| 6881341
| Specified schedule not found.
|
| 6881344
| Failed to queue specified job.
|
| 6881345
| This operation is not permitted on a node SVM.
|
| 6881349
| Policy name is not valid.
|
| 6881362
| Threshold percentage cannot be less than 1 percent.
|
| 6881433
| For "\{0\}" type policy, attribute "\{1\}" is not supported.
|
| 6881435
| Only a policy of type "threshold" can set the "start-threshold-percent" attribute.
|
| 6881436
| For a policy of type "scheduled", a valid "schedule" is a required attribute.
|
| 6881454
| An efficiency policy of type "threshold" requires an effective cluster version of ONTAP 8.3 or later.
|
| 6881474
| Duration cannot be null.
|
| 6881475
| Duration is not valid.
|
| 6881476
| Duration cannot be less than 1 hour.
|
| 6881477
| Duration cannot be more than 999 hours.
| ====

```

```

== Definitions

[.api-def-first-level]
.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block
=====
[#href]
[.api-collapsible-fifth-title]
href

[cols=3*,options=header]
| ====
| Name
| Type
| Description

| href
| string
a |

| ====

[_links]
[.api-collapsible-fifth-title]
_links
[#schedule]
[.api-collapsible-fifth-title]
schedule

[cols=3*,options=header]
| ====
| Name
| Type
| Description

| name
| string
a|Schedule at which volume efficiency policies are captured on the SVM.
Some common schedules already defined in the system are hourly, daily,
weekly, at 5 minute intervals, and at 8 hour intervals. Volume efficiency
policies with custom schedules can be referenced.

| ====

```

```

[#svm]
[.api-collapsible-fifth-title]
svm

[cols=3*,options=header]
| ===
| Name
| Type
| Description

| name
| string
a|The name of the SVM.

| uuid
| string
a|The unique identifier of the SVM.

| ===

[#volume_efficiency_policy]
[.api-collapsible-fifth-title]
volume_efficiency_policy

[cols=3*,options=header]
| ===
| Name
| Type
| Description

| comment
| string
a|A comment associated with the volume efficiency policy.

| duration
| integer
a|This field is used with the policy type "scheduled" to indicate the
allowed duration for a session, in hours. Possible value is a number
between 0 and 999 inclusive. Default is unlimited indicated by value 0.

| enabled

```

```

|boolean
a|Is the volume efficiency policy enabled?


|name
|string
a|Name of the volume efficiency policy.


|qos_policy
|string
a|QoS policy for the sis operation. Possible values are background and
best_effort. In background, sis operation will run in background with
minimal or no impact on data serving client operations. In best_effort,
sis operations may have some impact on data serving client operations.


|schedule
|link:#schedule[schedule]
a|


|start_threshold_percent
|integer
a|This field is used with the policy type "threshold" to indicate the
threshold percentage for triggering the volume efficiency policy. It is
mutually exclusive of the schedule.


|svm
|link:#svm[svm]
a|


|type
|string
a|Type of volume efficiency policy.


|uuid
|string
a|Unique identifier of volume efficiency policy.


|====

[#error_arguments]
[.api-collapsible-fifth-title]

```

```
error_arguments

[cols=3*,options=header]
| ====
| Name
| Type
| Description

| code
| string
a|Argument code

| message
| string
a|Message argument

| ====

[#error]
[.api-collapsible-fifth-title]
error

[cols=3*,options=header]
| ====
| Name
| Type
| Description

| arguments
| array[link:#error_arguments[error_arguments]]
a|Message arguments

| code
| string
a|Error code

| message
| string
a|Error message

| target
```

```

| string
a|The target parameter that caused the error.

| ===

//end collapsible .Definitions block
=====

[[IDf6dd2e133a40935d1c6f8ca0f15b57cf]]
= Delete a volume efficiency policy

[.api-doc-operation .api-doc-operation-delete]#DELETE# [.api-doc-code-
block]#/storage/volume-efficiency-policies/{uuid}`#


*Introduced In:* 9.8

Deletes a volume efficiency policy.

== Related ONTAP commands

* `volume efficiency policy modify`

== Learn more

* xref:{relative\_path}storage\_volume-efficiency-
policies\_endpoint\_overview.html\[DOC /storage/volume-efficiency-policies\]

== Parameters

[cols=5*,options=header]
| ===

| Name
| Type
| In
| Required
| Description

| uuid
| string
| path
| True

```

```
a|Volume efficiency policy UUID
```

```
|====
```

```
== Response
```

Status: 200, Ok

```
== Error
```

Status: Default

```
ONTAP Error Response Code
```

```
|====
```

```
| Error Code | Description
```

```
| 6881346
```

```
| The policy was not deleted because the policy is in use by at least one
volume.
```

```
| 6881347
```

```
| This operation cannot be performed because the specified policy is owned
by the cluster admin.
```

```
| 6881431
```

```
| The specified policy is a predefined policy and cannot be deleted.
```

```
|====
```

```
[cols=3*,options=header]
```

```
|====
```

```
| Name
```

```
| Type
```

```
| Description
```

```
|error
```

```
|link:#error[error]
```

```
a|
```

```
|====
```

```
.Example error
```

```

[%collapsible%closed]
=====
[source, json, subs=+macros]
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
=====

== Definitions

[.api-def-first-level]
.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block
=====
[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments

[cols=3*, options=header]
| ===
| Name
| Type
| Description

| code
| string
a|Argument code

| message
| string
a|Message argument

| ===

```

```

[#error]
[.api-collapsible-fifth-title]
error

[cols=3*,options=header]
| ====
| Name
| Type
| Description

| arguments
| array[link:#error_arguments[error_arguments]]
a|Message arguments

| code
| string
a|Error code

| message
| string
a|Error message

| target
| string
a|The target parameter that caused the error.

| ====

//end collapsible .Definitions block
=====

[[ID2c1d1ecd0f944ae52bff46a11684c108]]
= Retrieve volume efficiency policy details

[.api-doc-operation .api-doc-operation-get]#GET# [.api-doc-code-
block]#/storage/volume-efficiency-policies/{uuid}`#
*Introduced In:* 9.8

```

Retrieves the details of the specified volume efficiency policy.

== Related ONTAP commands

\* `volume efficiency policy show`

== Learn more

\* [xref:{relative\\_path}storage\\_volume-efficiency-policies\\_endpoint\\_overview.html](#) [DOC /storage/volume-efficiency-policies]

== Parameters

[cols=5\*, options=header]

|====

| Name

| Type

| In

| Required

| Description

| uuid

| string

| path

| True

a|Volume efficiency policy UUID

| fields

| array[string]

| query

| False

a|Specify the fields to return.

|====

== Response

Status: 200, Ok

[cols=3\*, options=header]

|====

| Name

| Type

Description	
_links	
link:#_links[_links]	
a	
comment	
string	
a A comment associated with the volume efficiency policy.	
duration	
integer	
a This field is used with the policy type "scheduled" to indicate the allowed duration for a session, in hours. Possible value is a number between 0 and 999 inclusive. Default is unlimited indicated by value 0.	
enabled	
boolean	
a Is the volume efficiency policy enabled?	
name	
string	
a Name of the volume efficiency policy.	
qos_policy	
string	
a QoS policy for the sis operation. Possible values are background and best_effort. In background, sis operation will run in background with minimal or no impact on data serving client operations. In best_effort, sis operations may have some impact on data serving client operations.	
schedule	
link:#schedule[schedule]	
a	
start_threshold_percent	
integer	
a This field is used with the policy type "threshold" to indicate the threshold percentage for triggering the volume efficiency policy. It is mutually exclusive of the schedule.	

```

| svm
| link:#svm[svm]
a|


| type
| string
a|Type of volume efficiency policy.

| uuid
| string
a|Unique identifier of volume efficiency policy.

| ===

.Example response
[%collapsible%closed]
=====
[source, json, subs=+macros]
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "comment": "string",
  "duration": 5,
  "enabled": 1,
  "name": "default",
  "qos_policy": "string",
  "schedule": {
    "name": "daily"
  },
  "start_threshold_percent": 30,
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svml",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "type": "string",
}

```

```

    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}
=====

== Error

```

Status: Default, Error

```

[cols=3*, options=header]
|=====
| Name
| Type
| Description

|error
|link:#error[error]
a|


|=====

.Example error
[%collapsible%closed]
=====

[source, json, subs=+macros]
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
=====

== Definitions

[.api-def-first-level]
.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block

```

```
====  
[#href]  
[.api-collapsible-fifth-title]  
href
```

```
[cols=3*,options=header]
```

```
|====
```

```
| Name
```

```
| Type
```

```
| Description
```

```
| href
```

```
| string
```

```
a|
```

```
|====
```

```
[#_links]
```

```
[.api-collapsible-fifth-title]
```

```
_links
```

```
[cols=3*,options=header]
```

```
|====
```

```
| Name
```

```
| Type
```

```
| Description
```

```
| self
```

```
| link:#href[href]
```

```
a|
```

```
|====
```

```
[#schedule]
```

```
[.api-collapsible-fifth-title]
```

```
schedule
```

```
[cols=3*,options=header]
```

```
|====
```

```
| Name
```

```
| Type
```

```
| Description
```

```
| name
```

```
| string
```

a|Schedule at which volume efficiency policies are captured on the SVM. Some common schedules already defined in the system are hourly, daily, weekly, at 5 minute intervals, and at 8 hour intervals. Volume efficiency policies with custom schedules can be referenced.

|====

```
[#svm]
[.api-collapsible-fifth-title]
svm
```

```
[cols=3*,options=header]
```

|====

|Name

|Type

|Description

|\_links

|link:#\_links[\_links]

a|

|name

|string

a|The name of the SVM.

|uuid

|string

a|The unique identifier of the SVM.

|====

```
[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments
```

```
[cols=3*,options=header]
```

|====

|Name

|Type

|Description

|code

```
| string
a|Argument code

|message
| string
a|Message argument

| ===

[#error]
[.api-collapsible-fifth-title]
error

[cols=3*,options=header]
| ===
| Name
| Type
| Description

|arguments
|array[link:#error_arguments[error_arguments]]
a|Message arguments

| code
| string
a|Error code

|message
| string
a|Error message

|target
| string
a|The target parameter that caused the error.

| ===

//end collapsible .Definitions block
=====
```

```

[[IDaf9b66033e0ae6528f58aa644aaccfbc]]
= Update a volume efficiency policy

[.api-doc-operation .api-doc-operation-patch]#PATCH# [.api-doc-code-
block]#/storage/volume-efficiency-policies/{uuid}`#
*Introduced In:* 9.8

Updates a volume efficiency policy.

== Related ONTAP commands

* `volume efficiency policy modify`

== Learn more

* xref:{relative\_path}storage\_volume-efficiency-
policies\_endpoint\_overview.html [DOC /storage/volume-efficiency-policies]

== Parameters

[cols=5*,options=header]
| ===

| Name
| Type
| In
| Required
| Description

| uuid
| string
| path
| True
a|Volume efficiency policy UUID

| ===

== Request Body

[cols=3*,options=header]

```

```

| ===
| Name
| Type
| Description

| comment
| string
a|A comment associated with the volume efficiency policy.

| duration
| integer
a|This field is used with the policy type "scheduled" to indicate the
allowed duration for a session, in hours. Possible value is a number
between 0 and 999 inclusive. Default is unlimited indicated by value 0.

| enabled
| boolean
a|Is the volume efficiency policy enabled?

| qos_policy
| string
a|QoS policy for the sis operation. Possible values are background and
best_effort. In background, sis operation will run in background with
minimal or no impact on data serving client operations. In best_effort,
sis operations may have some impact on data serving client operations.

| schedule
| link:#schedule[schedule]
a|  
  

| start_threshold_percent
| integer
a|This field is used with the policy type "threshold" to indicate the
threshold percentage for triggering the volume efficiency policy. It is
mutually exclusive of the schedule.

| type
| string
a|Type of volume efficiency policy.

| uuid

```

```

| string
a|Unique identifier of volume efficiency policy.

| ===

.Example request
[%collapsible%closed]
=====

[source, json, subs=+macros]
{
  "comment": "string",
  "duration": 5,
  "enabled": 1,
  "qos_policy": "string",
  "schedule": {
    "name": "daily"
  },
  "start_threshold_percent": 30,
  "type": "string",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}
=====

== Response

```

Status: 200, Ok

```

== Error

```

Status: Default

```

ONTAP Error Response Code

| ===
| Error Code | Description

| 6881341
| Specified schedule not found.

| 6881344
| Failed to queue specified job.

| 6881348

```

```
| This operation cannot be performed because the specified policy is owned  
by the cluster admin.  
  
| 6881349  
| Policy name is not valid.  
  
| 6881362  
| Threshold percentage cannot be less than 1 percent.  
  
| 6881433  
| For "{\{0\}}" type policy, "{\{1\}}" duration is not supported.  
  
| 6881435  
| Only a policy of type "threshold" can set the "start-threshold-percent"  
attribute.  
  
| 6881436  
| For a policy of type "scheduled", a valid "schedule" is a required  
attribute.  
  
| 6881438  
| For "{\{0\}}" policy, modification of attributes is not allowed.  
  
| 6881474  
| Duration cannot be null.  
  
| 6881475  
| Duration is not valid.  
  
| 6881476  
| Duration cannot be less than 1 hour.  
  
| 6881477  
| Duration cannot be more than 999 hours.  
|====
```

== Definitions

```
[.api-def-first-level]  
.See Definitions  
[%collapsible%closed]  
//Start collapsible Definitions block  
=====  
[#href]  
[.api-collapsible-fifth-title]  
href
```

```
[cols=3*,options=header]
|===
|Name
|Type
|Description

|href
|string
a|


|===

[#_links]
[.api-collapsible-fifth-title]
_links
[#schedule]
[.api-collapsible-fifth-title]
schedule

[cols=3*,options=header]
|===
|Name
|Type
|Description

|name
|string
a|Schedule at which volume efficiency policies are captured on the SVM.
Some common schedules already defined in the system are hourly, daily,
weekly, at 5 minute intervals, and at 8 hour intervals. Volume efficiency
policies with custom schedules can be referenced.

|===

[#svm]
[.api-collapsible-fifth-title]
svm

[cols=3*,options=header]
|===
|Name
|Type
|Description
```

```

| name
| string
a|The name of the SVM.

| uuid
| string
a|The unique identifier of the SVM.

| ===

[#volume_efficiency_policy]
[.api-collapsible-fifth-title]
volume_efficiency_policy

[cols=3*,options=header]
| ===
| Name
| Type
| Description

| comment
| string
a|A comment associated with the volume efficiency policy.

| duration
| integer
a|This field is used with the policy type "scheduled" to indicate the
allowed duration for a session, in hours. Possible value is a number
between 0 and 999 inclusive. Default is unlimited indicated by value 0.

| enabled
| boolean
a|Is the volume efficiency policy enabled?

| qos_policy
| string
a|QoS policy for the sis operation. Possible values are background and
best_effort. In background, sis operation will run in background with
minimal or no impact on data serving client operations. In best_effort,
sis operations may have some impact on data serving client operations.

```

```
|schedule
|link:#schedule[schedule]
a|  
  
|start_threshold_percent
|integer
a|This field is used with the policy type "threshold" to indicate the
threshold percentage for triggering the volume efficiency policy. It is
mutually exclusive of the schedule.  
  
|type
|string
a|Type of volume efficiency policy.  
  
|uuid
|string
a|Unique identifier of volume efficiency policy.  
  
|====  
  
[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments  
  
[cols=3*,options=header]
|====  
|Name
|Type
|Description  
  
|code
|string
a|Argument code  
  
|message
|string
a|Message argument  
  
|====
```

```
[#error]
[.api-collapsible-fifth-title]
error

[cols=3*,options=header]
| ====
| Name
| Type
| Description

| arguments
| array[link:#error_arguments[error_arguments]]
a|Message arguments

| code
| string
a|Error code

| message
| string
a|Error message

| target
| string
a|The target parameter that caused the error.

| ====

//end collapsible .Definitions block
=====

:leveloffset: -1

:leveloffset: -1

<<<
*Copyright information*
```

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