



# **Manage volume efficiency policies**

ONTAP 9.12.1 REST API reference

NetApp  
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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-httpd
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-httpd 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-httpd 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-httpd X-Content-Type-Options: nosniff Cache-Control: no-cache,no-store,must-revalidate Content-Length: 3 Content-Type: application/json

```
[[ID9808af08197f7bd0c94ebf162323d4a3]]
= 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  
  
|comment  
|string  
|query  
|False  
a|Filter by comment  
  
|type  
|string  
|query  
|False  
a|Filter by type  
  
|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  
  
|duration  
|integer  
|query  
|False
```



a|Filter by duration

|name

|string

|query

|False

a|Filter by name

|enabled

|boolean

|query

|False

a|Filter by enabled

|qos\_policy

|string

|query

|False

a|Filter by qos\_policy

|start\_threshold\_percent

|integer

|query

|False

a|Filter by start\_threshold\_percent

|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"
    }
  },
  "num_records": 1,
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "comment": "string",
    "duration": 5,
    "enabled": 1,
    "name": "default",
    "qos_policy": "background",
    "schedule": {
      "name": "daily"
    }
  },
}
```

```

"start_threshold_percent": 30,
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"type": "threshold",
"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|

|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

|_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.

|===

[#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
=====

[[ID88ba0b0001aa001bf298d43a7dc01cf6]]
= 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

|_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 request
```

```
[%collapsible%closed]
```

```
=====
```

```
[source,json,subs=+macros]
```

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "comment": "string",
  "duration": 5,
  "enabled": 1,
  "name": "default",
  "qos_policy": "background",
  "schedule": {
    "name": "daily"
  },
  "start_threshold_percent": 30,
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "type": "threshold",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}
```

```
=====
```

== Response

Status: 201, Created

=== Headers

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

//start row
|Location
|Useful for tracking the resource location
|string
//end row
//end table
|===

== 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.
|===
```

```
[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.
```

```
|===
```

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

```
[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.
```

```
|===
```

```
[#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
=====

```

```
[[ID9bfb505c0cef6ce3870048692a853640]]
```

```
= 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
=====

[[ID5f18c123ec98bbfb99c3d301bd630e18]]
= 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": "background",
  "schedule": {
    "name": "daily"
  },
  "start_threshold_percent": 30,
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "type": "threshold",
  "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
====

[[ID3b0ef6580084112f8a8945ce2bdb2649]]
= 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

|\_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 request
```

```
[%collapsible%closed]
```

```
====
```

```
[source,json,subs=+macros]
```

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "comment": "string",
  "duration": 5,
  "enabled": 1,
  "name": "default",
  "qos_policy": "background",
  "schedule": {
    "name": "daily"
  },
  "start_threshold_percent": 30,
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "type": "threshold",
  "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.
|===
```

```
[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.
```

```
|===
```

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

```
[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.

|===

[#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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