

Manage volume efficiency policies

ONTAP 9.9.1 REST API reference

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Table of Contents

anage volume efficiency policies
Storage volume-efficiency-policies endpoint overview
The API:
The call:
The response:
The API:
The call:
The response:
The API:
The call:
The response:

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:

– POST /api/storage/volume-efficiency-policies

– GET /api/storage/volume-efficiency-policies

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

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

– 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",
"gos 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

```
[[ID363ff3a57bf24f5520a2e90440e060dc]]
= 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
|enabled
|boolean
query
|False
a|Filter by enabled
|svm.uuid
|string
query
|False
a|Filter by svm.uuid
|svm.name
|string
query
|False
a|Filter by svm.name
comment
|string
query
|False
a|Filter by comment
|type
|string
query
|False
a|Filter by type
|uuid
|string
query
|False
```

```
a|Filter by uuid
|qos_policy
|string
query
|False
a|Filter by qos_policy
|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
|start_threshold_percent
|integer
query
|False
a|Filter by start threshold percent
|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]
|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": "background",
    "schedule": {
      "name": "daily"
    "start_threshold_percent": "30",
```

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
SVM, applies only to SVM-scoped objects.
```

```
[cols=3*,options=header]
|===
|Name
|Type
|Description
| links
|link:# links[ links]
|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 types "scheduled" and "auto" 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
Iboolean
a|Is the volume efficiency policy enabled?
Iname
|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]
аl
|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
mutuallly exclusive of the schedule.
svm
|link:#svm[svm]
a|SVM, applies only to SVM-scoped objects.
|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
I 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
====
[[ID1489c3054eea70ab02fc4b30b360df94]]
= 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 "threshold" and "auto".
* `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` - auto
* `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]
|comment
|string
a|A comment associated with the volume efficiency policy.
|duration
|integer
a|This field is used with the policy types "scheduled" and "auto" 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.
lenabled
Iboolean
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]
аl
|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
mutuallly exclusive of the schedule.
```

```
svm
|link:#svm[svm]
a|SVM, applies only to SVM-scoped objects.
|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",
  "gos policy": "background",
  "schedule": {
    "name": "daily"
  "start threshold percent": "30",
  "svm": {
    " links": {
      "self": {
        "href": "/api/resourcelink"
      }
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
```

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 "\{\setminus\{0\}\}" type policy, attribute "\{\setminus\{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]
[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
SVM, applies only to SVM-scoped objects.
[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]
comment
|string
a|A comment associated with the volume efficiency policy.
|duration
|integer
a|This field is used with the policy types "scheduled" and "auto" 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
mutuallly exclusive of the schedule.
svm
|link:#svm[svm]
a|SVM, applies only to SVM-scoped objects.
|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
====
[[IDef89795e1be3fc9b5f63926781e2017d]]
= 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
====
[[ID39538b253358049bd05a37e3b45a38af]]
= 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
```

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 types "scheduled" and "auto" 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
```

```
Iboolean
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 l
|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
mutuallly exclusive of the schedule.
svm
|link:#svm[svm]
a|SVM, applies only to SVM-scoped objects.
|type
|string
a|Type of volume efficiency policy.
luuid
|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",
  "gos 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
SVM, applies only to SVM-scoped objects.
[cols=3*, options=header]
|===
|Name
|Type
```

```
|Description
| links
|link:# links[ links]
|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
====
[[IDcc229322889767237defeea663444f59]]
= 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]
comment
|string
a \mid A comment associated with the volume efficiency policy.
|duration
|integer
a|This field is used with the policy types "scheduled" and "auto" 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.
lenabled
|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.
Ischedule
|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|SVM, applies only to SVM-scoped objects.
|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
I 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.
I 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.
I 6881436
| For a policy of type "scheduled", a valid "schedule" is a required
attribute.
| 6881438
| For "\{\setminus\{0\}\}" policy, modification of attributes is not allowed.
| 6881474
| Duration cannot be null.
I 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
Iself
|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
SVM, applies only to SVM-scoped objects.
[cols=3*,options=header]
|===
|Name
|Type
|Description
|_links
|link:# links[ links]
a|
|name
|string
a|The name of the SVM.
luuid
|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 types "scheduled" and "auto" 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
Iboolean
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.
Ischedule
|link:#schedule[schedule]
a l
|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|SVM, applies only to SVM-scoped objects.
|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
<<<
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