



# Manage FlexCache volumes

## ONTAP 9.8 REST API reference

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# Table of Contents

- Manage FlexCache volumes ..... 1
  - Storage flexcache flexcaches endpoint overview ..... 1
  - Retrieve a FlexCache volume in the cluster ..... 6
  - Create a FlexCache volume in the cluster ..... 16
  - Delete a FlexCache volume ..... 28
  - Retrieve attributes of the FlexCache volume in the cluster ..... 32

# Manage FlexCache volumes

## Storage flexcache flexcaches endpoint overview

### Overview

FlexCache is a persistent cache of an origin volume. An origin volume can only be a FlexVol while a FlexCache is always a FlexGroup.

The following relationship configurations are supported:

&ndash; Intra-Vserver where FlexCache and the corresponding origin volume reside in the same Vserver.

&ndash; Cross-Vserver but intra-cluster where FlexCache and the origin volume reside in the same cluster but belong to different Vservers.

&ndash; Cross-cluster where FlexCache and the origin volume reside in different clusters.

FlexCache supports fan-out and more than one FlexCache can be created from one origin volume. This API retrieves and manages FlexCache configurations in the cache cluster.

### FlexCache APIs

The following APIs can be used to perform operations related with FlexCache:

&ndash; GET `/api/storage/flexcache/flexcaches`

&ndash; GET `/api/storage/flexcache/flexcaches/{uuid}`

&ndash; POST `/api/storage/flexcache/flexcaches`

&ndash; DELETE `/api/storage/flexcache/flexcaches/{uuid}`

### Examples

#### Creating a FlexCache

The POST request is used to create a FlexCache.

```

# The API:
/api/storage/flexcache/flexcaches

# The call:
curl -X POST "https://<mgmt-ip>/api/storage/flexcache/flexcaches" -H
"accept: application/json" -H "Content-Type: application/json" -d "{
\"aggregates\": [ { \"name\": \"aggr_1\" } ], \"name\": \"fc_333\",
\"origins\": [ { \"svm\": { \"name\": \"vs_3\" }, \"volume\": {
\"name\": \"vol_o1\" } } ], \"svm\": { \"name\": \"vs_1\" } }"

# The response:
{
"job": {
  "uuid": "e751dd5d-0f3c-11e9-8b2b-0050568e0b79",
  "_links": {
    "self": {
      "href": "/api/cluster/jobs/e751dd5d-0f3c-11e9-8b2b-0050568e0b79"
    }
  }
}
}
}

```

## Retrieving FlexCache attributes

The GET request is used to retrieve FlexCache attributes. The object includes a large set of fields which can be expensive to retrieve. Most notably, the fields size, guarantee.type, aggregates, path, origins.ip\_address, origins.size, and origins.state are expensive to retrieve. The recommended method to use this API is to filter and retrieve only the required fields.

```

# The API:
/api/storage/flexcache/flexcaches

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/flexcache/flexcaches?" -H
"accept: application/json"

# The response:
{
  "records": [
    {
      "uuid": "04d5e07b-0ebe-11e9-8180-0050568e0b79",
      "name": "fc_322",
      "_links": {
        "self": {
          "href": "/api/storage/flexcache/flexcaches/04d5e07b-0ebe-11e9-

```

```
8180-0050568e0b79"
  }
}
},
{
  "uuid": "47902654-0ea4-11e9-8180-0050568e0b79",
  "name": "fc_321",
  "_links": {
    "self": {
      "href": "/api/storage/flexcache/flexcaches/47902654-0ea4-11e9-
8180-0050568e0b79"
    }
  }
},
{
  "uuid": "77e911ff-0ebe-11e9-8180-0050568e0b79",
  "name": "fc_323",
  "_links": {
    "self": {
      "href": "/api/storage/flexcache/flexcaches/77e911ff-0ebe-11e9-
8180-0050568e0b79"
    }
  }
},
{
  "uuid": "ddb42bbc-0e95-11e9-8180-0050568e0b79",
  "name": "fc_32",
  "_links": {
    "self": {
      "href": "/api/storage/flexcache/flexcaches/ddb42bbc-0e95-11e9-
8180-0050568e0b79"
    }
  }
},
{
  "uuid": "ec774932-0f3c-11e9-8b2b-0050568e0b79",
  "name": "fc_333",
  "_links": {
    "self": {
      "href": "/api/storage/flexcache/flexcaches/ec774932-0f3c-11e9-
8b2b-0050568e0b79"
    }
  }
}
],
"num_records": 5,
```

```
"_links": {
  "self": {
    "href": "/api/storage/flexcache/flexcaches?"
  }
}
}
```

## Retrieving the attributes of a FlexCache

The GET request is used to retrieve the attributes of a FlexCache. The object includes a large set of fields which can be expensive to retrieve. Most notably, the fields `size`, `guarantee.type`, `aggregates`, `path`, `origins.ip_address`, `origins.size`, and `origins.state` are expensive to retrieve. The recommended method to use this API is to filter and retrieve only the required fields.

```
# The API:
/api/storage/flexcache/flexcaches/{uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/flexcache/flexcaches/ec774932-0f3c-11e9-8b2b-0050568e0b79" -H "accept: application/json"

# The response:
{
  "uuid": "ec774932-0f3c-11e9-8b2b-0050568e0b79",
  "name": "fc_333",
  "svm": {
    "name": "vs_1",
    "uuid": "e708fbe2-0e92-11e9-8180-0050568e0b79"
  },
  "size": 4294967296,
  "guarantee": {
    "type": "volume"
  },
  "aggregates": [
    {
      "name": "aggr_1",
      "uuid": "26f34b76-88f8-4a47-b5e0-d8e901fb1114"
    }
  ],
  "origins": [
    {
      "ip_address": "10.140.103.175",
      "size": 20971520,
      "create_time": "2019-01-03T15:19:55+05:30",
      "state": "online",
      "volume": {
```

```

    "name": "vol_01",
    "uuid": "2bc957dd-2617-4afb-8d2f-66ac6070d313"
  },
  "svm": {
    "name": "vs_3",
    "uuid": "8aa2cd28-0e92-11e9-b391-0050568e4115"
  },
  "cluster": {
    "name": "node2",
    "uuid": "50733f81-0e90-11e9-b391-0050568e4115"
  }
}
],
"_links": {
  "self": {
    "href": "/api/storage/flexcache/flexcaches/ec774932-0f3c-11e9-8b2b-0050568e0b79"
  }
}
}

```

## Deleting a FlexCache

The DELETE request is used to delete a FlexCache.

```

# The API:
/api/storage/flexcache/flexcaches

# The call:
curl -X DELETE "https://<mgmt-
ip>/api/storage/flexcache/flexcaches/ec774932-0f3c-11e9-8b2b-0050568e0b79"
-H "accept: application/json"

# The response:
{
  "job": {
    "uuid": "e17994f2-0f3e-11e9-8b2b-0050568e0b79",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/e17994f2-0f3e-11e9-8b2b-0050568e0b79"
      }
    }
  }
}
}

```

# Retrieve a FlexCache volume in the cluster

GET /storage/flexcache/flexcaches

**Introduced In:** 9.6

Retrieves FlexCache in the cluster.

## Expensive properties

There is an added cost to retrieving values for these properties. They are not included by default in GET results and must be explicitly requested using the `fields` query parameter. See [Requesting specific fields](#) to learn more.

- `origins.ip_address` - IP address of origin.
- `origins.size` - Physical size of origin.
- `origins.state` - State of origin.
- `size` - Physical size of FlexCache.
- `guarantee.type` - Space guarantee style of FlexCache.
- `aggregates.name` or `aggregates.uuid` - Name or UUID of aggregate of FlexCache volume.
- `path` - Fully-qualified path of the owning SVM's namespace where the FlexCache is mounted.

## Related ONTAP commands

- `volume flexcache show`

## Learn more

- [DOC /storage/flexcache/flexcaches](#)

## Parameters

Name	Type	In	Required	Description
<code>uuid</code>	string	query	False	Filter by uuid
<code>aggregates.uuid</code>	string	query	False	Filter by aggregates.uuid
<code>aggregates.name</code>	string	query	False	Filter by aggregates.name
<code>constituents_per_aggregate</code>	integer	query	False	Filter by constituents_per_aggregate



Name	Type	In	Required	Description
origins.svm.uuid	string	query	False	Filter by origins.svm.uuid
origins.svm.name	string	query	False	Filter by origins.svm.name
origins.state	string	query	False	Filter by origins.state
origins.ip_address	string	query	False	Filter by origins.ip_address
origins.cluster.name	string	query	False	Filter by origins.cluster.name
origins.cluster.uuid	string	query	False	Filter by origins.cluster.uuid
origins.size	integer	query	False	Filter by origins.size
origins.volume.uuid	string	query	False	Filter by origins.volume.uuid
origins.volume.name	string	query	False	Filter by origins.volume.name
origins.create_time	string	query	False	Filter by origins.create_time
name	string	query	False	Filter by name
lock_consistent_when_disconnected	boolean	query	False	Filter by lock_consistent_when_disconnected  • Introduced in: 9.8
size	integer	query	False	Filter by size
path	string	query	False	Filter by path
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name

Name	Type	In	Required	Description
use_tiered_aggregate	boolean	query	False	Filter by use_tiered_aggregate  • Introduced in: 9.8
guarantee.type	string	query	False	Filter by guarantee.type  • Introduced in: 9.7
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.  • Default value: 1 • Max value: 120 • Min value: 0
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
order_by	array[string]	query	False	Order results by specified fields and optional [asc
desc] direction. Default direction is 'asc' for ascending.	return_records	boolean	query	False

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">flexcache</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "aggregates": [
        {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "name": "aggr1",
          "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
        }
      ],
      "guarantee": {
        "type": "string"
      },
      "name": "vol1",
      "origins": [
        {
          "cluster": {
            "_links": {
              "self": {
                "href": "/api/resourcelink"
              }
            },
            "name": "cluster1",
            "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
          },
          "create_time": "2018-06-04T19:00:00Z",
          "ip_address": "10.10.10.7",

```

```

    "size": 0,
    "state": "string",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
  ],
  "path": "/user/my_fc",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}
]
}

```

## Error

Status: Default, Error

Name	Type	Description
error	error	

## Example error

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

## Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
next	<a href="#">href</a>	
self	<a href="#">href</a>	

\_links

Name	Type	Description
self	<a href="#">href</a>	

aggregates

Aggregate

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

guarantee

Name	Type	Description
type	string	The type of space guarantee of this volume in the aggregate.

cluster

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

#### volume

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the volume.
uuid	string	<p>Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move.</p> <ul style="list-style-type: none"> <li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li> <li>• Introduced in: 9.6</li> </ul>

#### flexcache\_relationship

Name	Type	Description
cluster	<a href="#">cluster</a>	
create_time	string	Creation time of the relationship.
ip_address	string	Cluster management IP of the remote cluster.
size	integer	Size of the remote volume.
state	string	Volume state
svm	<a href="#">svm</a>	
volume	<a href="#">volume</a>	

#### svm

#### FlexCache SVM



Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

## flexcache

Defines the cache endpoint of FlexCache.

Name	Type	Description
_links	<a href="#">_links</a>	
aggregates	array[ <a href="#">aggregates</a> ]	
constituents_per_aggregate	integer	Number of FlexCache constituents per aggregate when the 'aggregates' field is mentioned.
guarantee	<a href="#">guarantee</a>	
lock_consistent_when_disconnected	boolean	Specifies if the origin will honor the cache side locks when doing the lock checks in the disconnected mode. The default value will be set to false to allow origin to skip such lock checks with the disconnected cache and go ahead with processing of the conflicting locks. If set to true the origin denies the lock operation (open or byte-range) if it conflicts with the authority granted to the disconnected cache.
name	string	FlexCache name
origins	array[ <a href="#">flexcache_relationship</a> ]	
path	string	The fully-qualified path in the owning SVM's namespace at which the FlexCache is mounted. The path is case insensitive and must be unique within a SVM's namespace. Path must begin with '/' and must not end with '/'. Only one FlexCache be mounted at any given junction path.

Name	Type	Description
size	integer	Physical size of the FlexCache. The recommended size for a FlexCache is 10% of the origin volume. The minimum FlexCache constituent size is 1GB.
svm	<a href="#">svm</a>	FlexCache SVM
use_tiered_aggregate	boolean	Specifies whether or not a Fabricpool-enabled aggregate can be used in FlexCache creation. The <code>use_tiered_aggregate</code> is only used when auto-provisioning a FlexCache volume.
uuid	string	FlexCache UUID. Unique identifier for the FlexCache.

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Create a FlexCache volume in the cluster

POST /storage/flexcache/flexcaches

Introduced In: 9.6

Creates a FlexCache in the cluster.

## Required properties

- `name` - Name of FlexCache volume.
- `origins.volume.name` or `origins.volume.uuid` - Name or UUID of origin volume.
- `origins.svm.name` - Name of origin Vserver.
- `svm.name` or `svm.uuid` - Name or UUID of Vserver where FlexCache will be created.

## Recommended optional properties

- `path` - Path to mount the FlexCache volume

## Default property values

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

- `size` - 10% of origin volume size or 1GB per constituent, whichever is greater.
- `guarantee.type` - Same as for a non-FlexCache FlexGroup volume.
- `constituents_per_aggregate` - 4 if `aggregates.name` or `aggregates.uuid` is used.
- `use_tiered_aggregate` - false if `aggr-list` is not used. This property is only used when auto-provisioning a FlexCache volume.
- `lock_consistent_when_disconnected` - false. This property specifies if the origin will honor the cache side locks when doing the lock checks in the disconnected mode.

## Related ONTAP commands

- `volume flexcache create`

## Learn more

- [DOC /storage/flexcache/flexcaches](#)

## Parameters

Name	Type	In	Required	Description
return_timeout	integer	query	False	<p>The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.</p> <ul style="list-style-type: none"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>
return_records	boolean	query	False	<p>The default is false. If set to true, the records are returned.</p> <ul style="list-style-type: none"> <li>• Default value:</li> </ul>

## Request Body

Name	Type	Description
_links	<a href="#">_links</a>	
aggregates	array[ <a href="#">aggregates</a> ]	

Name	Type	Description
constituents_per_aggregate	integer	Number of FlexCache constituents per aggregate when the 'aggregates' field is mentioned.
guarantee	<a href="#">guarantee</a>	
lock_consistent_when_disconnected	boolean	Specifies if the origin will honor the cache side locks when doing the lock checks in the disconnected mode. The default value will be set to false to allow origin to skip such lock checks with the disconnected cache and go ahead with processing of the conflicting locks. If set to true the origin denies the lock operation (open or byte-range) if it conflicts with the authority granted to the disconnected cache.
name	string	FlexCache name
origins	array[ <a href="#">flexcache_relationship</a> ]	
path	string	The fully-qualified path in the owning SVM's namespace at which the FlexCache is mounted. The path is case insensitive and must be unique within a SVM's namespace. Path must begin with '/' and must not end with '/'. Only one FlexCache be mounted at any given junction path.
size	integer	Physical size of the FlexCache. The recommended size for a FlexCache is 10% of the origin volume. The minimum FlexCache constituent size is 1GB.
svm	<a href="#">svm</a>	FlexCache SVM
use_tiered_aggregate	boolean	Specifies whether or not a Fabricpool-enabled aggregate can be used in FlexCache creation. The use_tiered_aggregate is only used when auto-provisioning a FlexCache volume.

<b>Name</b>	<b>Type</b>	<b>Description</b>
uuid	string	FlexCache UUID. Unique identifier for the FlexCache.

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "aggregates": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "aggr1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  ],
  "guarantee": {
    "type": "string"
  },
  "name": "vol1",
  "origins": [
    {
      "cluster": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "cluster1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "create_time": "2018-06-04T19:00:00Z",
      "ip_address": "10.10.10.7",
      "size": 0,
      "state": "string",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```

```

    },
    "volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
  ],
  "path": "/user/my_fc",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}

```

## Response

Status: 202, Accepted

Name	Type	Description
job	<a href="#">job_link</a>	



## Example response

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

## Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
66846870	Either the SVM name or origin volume name is missing
66846871	Constituents per aggregate are specified but aggregate name is missing
66846872	More than one origin volume is specified
66846873	The specified SVM UUID is incorrect for the specified SVM name
66846874	The specified aggregate UUID is incorrect for the specified aggregate name
66846875	The specified aggregate name does not exist
66846876	The specified SVM does not exist or is not peered
66846877	The specified origin SVM name is of zero length
66846878	The specified SVM UUID is invalid
66846730	Failed to create a FlexCache volume
66846760	The specified SVM is not a data Vserver
66846787	The specified aggregate is a SnapLock aggregate
66846812	The specified aggregate is a Composite aggregate
66846812	The specified junction path is under a FlexCache volume

Error Code	Description
66846834	FlexCache encryption requires a cluster version of 9.6 or higher
66846835	A volume encryption license is not found

Name	Type	Description
error	error	

### Example error

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

### Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

aggregates

Aggregate

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

guarantee

Name	Type	Description
type	string	The type of space guarantee of this volume in the aggregate.

cluster

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

volume

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	The name of the volume.
uuid	string	<p>Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move.</p> <ul style="list-style-type: none"> <li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li> <li>• Introduced in: 9.6</li> </ul>

#### flexcache\_relationship

Name	Type	Description
<a href="#">cluster</a>	<a href="#">cluster</a>	
create_time	string	Creation time of the relationship.
ip_address	string	Cluster management IP of the remote cluster.
size	integer	Size of the remote volume.
state	string	Volume state
<a href="#">svm</a>	<a href="#">svm</a>	
<a href="#">volume</a>	<a href="#">volume</a>	

#### svm

##### FlexCache SVM

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

#### flexcache

Defines the cache endpoint of FlexCache.

Name	Type	Description
_links	<a href="#">_links</a>	
aggregates	array[ <a href="#">aggregates</a> ]	
constituents_per_aggregate	integer	Number of FlexCache constituents per aggregate when the 'aggregates' field is mentioned.
guarantee	<a href="#">guarantee</a>	
lock_consistent_when_disconnected	boolean	Specifies if the origin will honor the cache side locks when doing the lock checks in the disconnected mode. The default value will be set to false to allow origin to skip such lock checks with the disconnected cache and go ahead with processing of the conflicting locks. If set to true the origin denies the lock operation (open or byte-range) if it conflicts with the authority granted to the disconnected cache.
name	string	FlexCache name
origins	array[ <a href="#">flexcache_relationship</a> ]	
path	string	The fully-qualified path in the owning SVM's namespace at which the FlexCache is mounted. The path is case insensitive and must be unique within a SVM's namespace. Path must begin with '/' and must not end with '/'. Only one FlexCache be mounted at any given junction path.
size	integer	Physical size of the FlexCache. The recommended size for a FlexCache is 10% of the origin volume. The minimum FlexCache constituent size is 1GB.
svm	<a href="#">svm</a>	FlexCache SVM

Name	Type	Description
use_tiered_aggregate	boolean	Specifies whether or not a Fabricpool-enabled aggregate can be used in FlexCache creation. The use_tiered_aggregate is only used when auto-provisioning a FlexCache volume.
uuid	string	FlexCache UUID. Unique identifier for the FlexCache.

#### job\_link

Name	Type	Description
_links	<a href="#">_links</a>	
uuid	string	The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation.

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Delete a FlexCache volume

DELETE /storage/flexcache/flexcaches/{uuid}

## Introduced In: 9.6

Deletes a FlexCache. If a FlexCache volume is online, it is offlined before deletion.

## Related ONTAP commands

- `volume flexcache delete`

## Learn more

- [DOC /storage/flexcache/flexcaches](#)

## Parameters

Name	Type	In	Required	Description
uuid	string	path	True	Unique identifier of the FlexCache.
return_timeout	integer	query	False	<p>The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.</p> <ul style="list-style-type: none"><li>• Default value: 1</li><li>• Max value: 120</li><li>• Min value: 0</li></ul>

## Response

Status: 202, Accepted

Name	Type	Description
job	<a href="#">job_link</a>	

## Example response

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

## Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
66846879	The specified volume UUID is not a FlexCache volume
66846731	Failed to delete the FlexCache volume
524546	Failed to delete the FlexCache volume because the FlexCache volume is not unmounted

Name	Type	Description
error	<a href="#">error</a>	



## Example error

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

## Definitions

## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

job\_link

Name	Type	Description
_links	<a href="#">_links</a>	
uuid	string	The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation.

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Retrieve attributes of the FlexCache volume in the cluster

GET /storage/flexcache/flexcaches/{uuid}

## Introduced In: 9.6

Retrieves attributes of the FlexCache in the cluster.

## Expensive properties

There is an added cost to retrieving values for these properties. They are included by default in GET. The recommended method to use this API is to filter and retrieve only the required fields. See [Requesting specific fields](#) to learn more.

- `origins.ip_address` - IP address of origin.
- `origins.size` - Physical size of origin.
- `origins.state` - State of origin.
- `size` - Physical size of FlexCache.
- `guarantee.type` - Space guarantee style of FlexCache.
- `aggregates.name` or `aggregates.uuid` - Name or UUID of aggregate of FlexCache volume.
- `path` - Fully-qualified path of the owning SVM's namespace where the FlexCache is mounted.

## Related ONTAP commands

- `volume flexcache show`

## Learn more

- [DOC /storage/flexcache/flexcaches](#)

## Parameters

Name	Type	In	Required	Description
<code>uuid</code>	string	path	True	Unique identifier of FlexCache.
<code>fields</code>	array[string]	query	False	Specify the fields to return.

## Response

```
Status: 200, Ok
```

Name	Type	Description
<code>_links</code>	<a href="#">_links</a>	
<code>aggregates</code>	array[ <a href="#">aggregates</a> ]	

Name	Type	Description
constituents_per_aggregate	integer	Number of FlexCache constituents per aggregate when the 'aggregates' field is mentioned.
guarantee	<a href="#">guarantee</a>	
lock_consistent_when_disconnected	boolean	Specifies if the origin will honor the cache side locks when doing the lock checks in the disconnected mode. The default value will be set to false to allow origin to skip such lock checks with the disconnected cache and go ahead with processing of the conflicting locks. If set to true the origin denies the lock operation (open or byte-range) if it conflicts with the authority granted to the disconnected cache.
name	string	FlexCache name
origins	array[ <a href="#">flexcache_relationship</a> ]	
path	string	The fully-qualified path in the owning SVM's namespace at which the FlexCache is mounted. The path is case insensitive and must be unique within a SVM's namespace. Path must begin with '/' and must not end with '/'. Only one FlexCache be mounted at any given junction path.
size	integer	Physical size of the FlexCache. The recommended size for a FlexCache is 10% of the origin volume. The minimum FlexCache constituent size is 1GB.
svm	<a href="#">svm</a>	FlexCache SVM
use_tiered_aggregate	boolean	Specifies whether or not a Fabricpool-enabled aggregate can be used in FlexCache creation. The use_tiered_aggregate is only used when auto-provisioning a FlexCache volume.

<b>Name</b>	<b>Type</b>	<b>Description</b>
uuid	string	FlexCache UUID. Unique identifier for the FlexCache.

## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "aggregates": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "aggr1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  ],
  "guarantee": {
    "type": "string"
  },
  "name": "vol1",
  "origins": [
    {
      "cluster": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "cluster1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "create_time": "2018-06-04T19:00:00Z",
      "ip_address": "10.10.10.7",
      "size": 0,
      "state": "string",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```

```

    },
    "volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
  ],
  "path": "/user/my_fc",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}

```

## Error

Status: Default, Error

Name	Type	Description
error	error	

## Example error

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

## Definitions



## See Definitions

href

Name	Type	Description
href	string	

\_links

Name	Type	Description
self	<a href="#">href</a>	

aggregates

Aggregate

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

guarantee

Name	Type	Description
type	string	The type of space guarantee of this volume in the aggregate.

cluster

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

svm

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

volume

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the volume.
uuid	string	<p>Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move.</p> <ul style="list-style-type: none"> <li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li> <li>• Introduced in: 9.6</li> </ul>

#### flexcache\_relationship

Name	Type	Description
cluster	<a href="#">cluster</a>	
create_time	string	Creation time of the relationship.
ip_address	string	Cluster management IP of the remote cluster.
size	integer	Size of the remote volume.
state	string	Volume state
svm	<a href="#">svm</a>	
volume	<a href="#">volume</a>	

#### svm

##### FlexCache SVM

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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