



# **Manage FlexCache connection status**

## **REST API reference**

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# Table of Contents

- Manage FlexCache connection status . . . . . 1
  - Manage FlexCache connection status . . . . . 1
    - Overview . . . . . 1
    - FlexCache APIs . . . . . 1
    - Examples . . . . . 1
  - Retrieve connection status between cache and origin volumes . . . . . 7
    - Related ONTAP commands . . . . . 7
    - Learn more . . . . . 8
    - Parameters . . . . . 8
    - Response . . . . . 9
    - Error . . . . . 10
    - Definitions . . . . . 11
  - Retrieve connection status between a cache and origin volume . . . . . 13
    - Related ONTAP commands . . . . . 13
    - Learn more . . . . . 14
    - Parameters . . . . . 14
    - Response . . . . . 14
    - Error . . . . . 15
    - Definitions . . . . . 16

# Manage FlexCache connection status

## Manage FlexCache connection status

### Overview

FlexCache is a persistent cache of an origin volume.

FlexCache supports fan-out and more than one FlexCache can be created from one origin volume. This API retrieves the connection status between cache and origin volumes.

### FlexCache APIs

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

&ndash; GET /api/storage/flexcache/connection-status

&ndash; GET /api/storage/flexcache/connection-status/{node}/{svm}/{local\_fg\_msid}/{remote\_svm\_uuid}/{remote\_vol\_const\_msid}

### Examples

#### Retrieving flexcache connection-status of all volumes.

The GET request is used to retrieve connection-status between all origins and their corresponding FlexCache volumes.

```
# The API:
/api/storage/flexcache/connection-status

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

# The response:
{
  "records": [
    {
      "node": "sti42-vsim-ucs511b",
      "svm": "vs0",
      "local_fg_msid": 2150359768,
      "remote_svm_uuid": "a9161fea-73a0-11f0-85c5-005056a7bcd5",
      "remote_vol_const_msid": 2150359767,
      "_links": {
        "self": {
          "href": "/api/storage/flexcache/connection-status/sti42-vsim-ucs511b/vs0/2150359768/a9161fea-73a0-11f0-85c5-005056a7bcd5/2150359767"
        }
      }
    }
  ]
}
```

```

    }
  },
  {
    "node": "sti42-vsim-ucs511d",
    "svm": "vs0",
    "local_fg_msid": 2150359768,
    "remote_svm_uuid": "a9161fea-73a0-11f0-85c5-005056a7bcd5",
    "remote_vol_const_msid": 2150359767,
    "_links": {
      "self": {
        "href": "/api/storage/flexcache/connection-status/sti42-vsim-ucs511d/vs0/2150359768/a9161fea-73a0-11f0-85c5-005056a7bcd5/2150359767"
      }
    }
  },
  {
    "node": "sti42-vsim-ucs511c",
    "svm": "vs0",
    "local_fg_msid": 2150359767,
    "remote_svm_uuid": "a9161fea-73a0-11f0-85c5-005056a7bcd5",
    "remote_vol_const_msid": 2150359769,
    "_links": {
      "self": {
        "href": "/api/storage/flexcache/connection-status/sti42-vsim-ucs511c/vs0/2150359767/a9161fea-73a0-11f0-85c5-005056a7bcd5/2150359769"
      }
    }
  },
  {
    "node": "sti42-vsim-ucs511c",
    "svm": "vs0",
    "local_fg_msid": 2150359767,
    "remote_svm_uuid": "a9161fea-73a0-11f0-85c5-005056a7bcd5",
    "remote_vol_const_msid": 2150359770,
    "_links": {
      "self": {
        "href": "/api/storage/flexcache/connection-status/sti42-vsim-ucs511c/vs0/2150359767/a9161fea-73a0-11f0-85c5-005056a7bcd5/2150359770"
      }
    }
  },
  {
    "node": "sti42-vsim-ucs511c",
    "svm": "vs0",
    "local_fg_msid": 2150359767,
    "remote_svm_uuid": "a9161fea-73a0-11f0-85c5-005056a7bcd5",

```

```

    "remote_vol_const_msid": 2150359771,
    "_links": {
      "self": {
        "href": "/api/storage/flexcache/connection-status/sti42-vsim-
ucs511c/vs0/2150359767/a9161fea-73a0-11f0-85c5-005056a7bcd5/2150359771"
      }
    }
  },
  {
    "node": "sti42-vsim-ucs511c",
    "svm": "vs0",
    "local_fg_msid": 2150359767,
    "remote_svm_uuid": "a9161fea-73a0-11f0-85c5-005056a7bcd5",
    "remote_vol_const_msid": 2150359772,
    "_links": {
      "self": {
        "href": "/api/storage/flexcache/connection-status/sti42-vsim-
ucs511c/vs0/2150359767/a9161fea-73a0-11f0-85c5-005056a7bcd5/2150359772"
      }
    }
  },
  {
    "node": "sti42-vsim-ucs511c",
    "svm": "vs0",
    "local_fg_msid": 2150359767,
    "remote_svm_uuid": "a9161fea-73a0-11f0-85c5-005056a7bcd5",
    "remote_vol_const_msid": 2150359773,
    "_links": {
      "self": {
        "href": "/api/storage/flexcache/connection-status/sti42-vsim-
ucs511c/vs0/2150359767/a9161fea-73a0-11f0-85c5-005056a7bcd5/2150359773"
      }
    }
  },
  {
    "node": "sti42-vsim-ucs511c",
    "svm": "vs0",
    "local_fg_msid": 2150359767,
    "remote_svm_uuid": "a9161fea-73a0-11f0-85c5-005056a7bcd5",
    "remote_vol_const_msid": 2150359774,
    "_links": {
      "self": {
        "href": "/api/storage/flexcache/connection-status/sti42-vsim-
ucs511c/vs0/2150359767/a9161fea-73a0-11f0-85c5-005056a7bcd5/2150359774"
      }
    }
  }
}

```

```

},
{
  "node": "sti42-vsim-ucs511c",
  "svm": "vs0",
  "local_fg_msid": 2150359767,
  "remote_svm_uuid": "a9161fea-73a0-11f0-85c5-005056a7bcd8",
  "remote_vol_const_msid": 2150359775,
  "_links": {
    "self": {
      "href": "/api/storage/flexcache/connection-status/sti42-vsim-ucs511c/vs0/2150359767/a9161fea-73a0-11f0-85c5-005056a7bcd8/2150359775"
    }
  }
},
{
  "node": "sti42-vsim-ucs511c",
  "svm": "vs0",
  "local_fg_msid": 2150359767,
  "remote_svm_uuid": "a9161fea-73a0-11f0-85c5-005056a7bcd8",
  "remote_vol_const_msid": 2150359776,
  "_links": {
    "self": {
      "href": "/api/storage/flexcache/connection-status/sti42-vsim-ucs511c/vs0/2150359767/a9161fea-73a0-11f0-85c5-005056a7bcd8/2150359776"
    }
  }
},
{
  "node": "sti42-vsim-ucs511c",
  "svm": "vs0",
  "local_fg_msid": 2150359767,
  "remote_svm_uuid": "a9161fea-73a0-11f0-85c5-005056a7bcd8",
  "remote_vol_const_msid": 2150359777,
  "_links": {
    "self": {
      "href": "/api/storage/flexcache/connection-status/sti42-vsim-ucs511c/vs0/2150359767/a9161fea-73a0-11f0-85c5-005056a7bcd8/2150359777"
    }
  }
},
{
  "node": "sti42-vsim-ucs511c",
  "svm": "vs0",
  "local_fg_msid": 2150359767,
  "remote_svm_uuid": "a9161fea-73a0-11f0-85c5-005056a7bcd8",
  "remote_vol_const_msid": 2150359778,

```

```

    "_links": {
      "self": {
        "href": "/api/storage/flexcache/connection-status/sti42-vsim-ucs511c/vs0/2150359767/a9161fea-73a0-11f0-85c5-005056a7bcd5/2150359778"
      }
    },
    {
      "node": "sti42-vsim-ucs511c",
      "svm": "vs0",
      "local_fg_msid": 2150359767,
      "remote_svm_uuid": "a9161fea-73a0-11f0-85c5-005056a7bcd5",
      "remote_vol_const_msid": 2150359779,
      "_links": {
        "self": {
          "href": "/api/storage/flexcache/connection-status/sti42-vsim-ucs511c/vs0/2150359767/a9161fea-73a0-11f0-85c5-005056a7bcd5/2150359779"
        }
      }
    },
    {
      "node": "sti42-vsim-ucs511c",
      "svm": "vs0",
      "local_fg_msid": 2150359767,
      "remote_svm_uuid": "a9161fea-73a0-11f0-85c5-005056a7bcd5",
      "remote_vol_const_msid": 2150359780,
      "_links": {
        "self": {
          "href": "/api/storage/flexcache/connection-status/sti42-vsim-ucs511c/vs0/2150359767/a9161fea-73a0-11f0-85c5-005056a7bcd5/2150359780"
        }
      }
    },
    {
      "node": "sti42-vsim-ucs511c",
      "svm": "vs0",
      "local_fg_msid": 2150359768,
      "remote_svm_uuid": "a9161fea-73a0-11f0-85c5-005056a7bcd5",
      "remote_vol_const_msid": 2150359767,
      "_links": {
        "self": {
          "href": "/api/storage/flexcache/connection-status/sti42-vsim-ucs511c/vs0/2150359768/a9161fea-73a0-11f0-85c5-005056a7bcd5/2150359767"
        }
      }
    }
  ],

```

```

{
  "node": "sti42-vsim-ucs511a",
  "svm": "vs0",
  "local_fg_msid": 2150359768,
  "remote_svm_uuid": "a9161fea-73a0-11f0-85c5-005056a7bcd8",
  "remote_vol_const_msid": 2150359767,
  "_links": {
    "self": {
      "href": "/api/storage/flexcache/connection-status/sti42-vsim-ucs511a/vs0/2150359768/a9161fea-73a0-11f0-85c5-005056a7bcd8/2150359767"
    }
  }
},
{
  "num_records": 16,
  "_links": {
    "self": {
      "href": "/api/storage/flexcache/connection-status/"
    }
  }
}

```

### Retrieving a single flexcache connection status

The GET request is used to retrieve a specific connection status between 2 volumes.

```
# The API:
/api/storage/flexcache/connection-
status/{node}/{svm}/{local_fg_msid}/{remote_svm_uuid}/{remote_vol_const_ms
id}

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/flexcache/connection-
status/sti42-vsim-ucs511c/vs0/2150359768/a9161fea-73a0-11f0-85c5-
005056a7bcd5/2150359767?" -H "accept: application/json"

# The response:
{
  "node": "sti42-vsim-ucs511c",
  "svm": "vs0",
  "local_fg_msid": 2150359768,
  "remote_svm_uuid": "a9161fea-73a0-11f0-85c5-005056a7bcd5",
  "remote_vol_const_msid": 2150359767,
  "svm_uuid": "a9161fea-73a0-11f0-85c5-005056a7bcd5",
  "volume": "fc0",
  "remote_svm": "vs0",
  "remote_volume": "vol0",
  "remote_cluster": "C1_sti42-vsim-ucs511a_1754576895",
  "conn_state": "connected",
  "remote_endpoint": "origin",
  "last_update_time": "2025-08-07T11:39:31-04:00",
  "_links": {
    "self": {
      "href": "/api/storage/flexcache/connection-status/sti42-vsim-
ucs511c/vs0/2150359768/a9161fea-73a0-11f0-85c5-005056a7bcd5/2150359767"
    }
  }
}
```

## Retrieve connection status between cache and origin volumes

GET /storage/flexcache/connection-status

**Introduced In:** 9.18

Retrieves attributes of the connection status between cache and origin volumes.

### Related ONTAP commands

- volume flexcache connection-status show

## Learn more

- [DOC /storage/flexcache/connection-status](#) Retrieves origin of FlexCache in the cluster.

## Parameters

| Name                  | Type          | In    | Required | Description                           |
|-----------------------|---------------|-------|----------|---------------------------------------|
| local_fg_msid         | integer       | query | False    | Filter by local_fg_msid               |
| remote_vol_const_msid | integer       | query | False    | Filter by remote_vol_const_msid       |
| node                  | string        | query | False    | Filter by node                        |
| remote_endpoint       | string        | query | False    | Filter by remote_endpoint             |
| remote_svm_uuid       | string        | query | False    | Filter by remote_svm_uuid             |
| last_update_time      | string        | query | False    | Filter by last_update_time            |
| svm                   | string        | query | False    | Filter by svm                         |
| remote_cluster        | string        | query | False    | Filter by remote_cluster              |
| svm_uuid              | string        | query | False    | Filter by svm_uuid                    |
| conn_state            | string        | query | False    | Filter by conn_state                  |
| volume                | string        | query | False    | Filter by volume                      |
| remote_volume         | string        | query | False    | Filter by remote_volume               |
| remote_svm            | string        | query | False    | Filter by remote_svm                  |
| fields                | array[string] | query | False    | Specify the fields to return.         |
| max_records           | integer       | query | False    | Limit the number of records returned. |

| Name           | Type          | In    | Required | Description                                                                                                                                                                                                                                                                             |
|----------------|---------------|-------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| return_records | boolean       | query | False    | The default is true for GET calls. When set to false, only the number of records is returned.<br><br>• Default value: 1                                                                                                                                                                 |
| 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.<br><br>• Default value: 15<br>• Max value: 120<br>• Min value: 0 |
| order_by       | array[string] | query | False    | Order results by specified fields and optional [asc                                                                                                                                                                                                                                     |

## Response

Status: 200, Ok

| Name        | Type                                       | Description       |
|-------------|--------------------------------------------|-------------------|
| _links      | <a href="#">collection_links</a>           |                   |
| num_records | integer                                    | Number of Records |
| records     | array[ <a href="#">connection_status</a> ] |                   |

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "conn_state": "string",
      "last_update_time": "2018-06-04 19:00:00 +0000",
      "local_fg_msid": 0,
      "node": "string",
      "remote_cluster": "string",
      "remote_endpoint": "string",
      "remote_svm": "string",
      "remote_svm_uuid": "string",
      "remote_vol_const_msid": 0,
      "remote_volume": "string",
      "svm": "string",
      "svm_uuid": "string",
      "volume": "string"
    }
  ]
}
```

## Error

Status: Default, Error

| Name  | Type                           | Description |
|-------|--------------------------------|-------------|
| error | <a href="#">returned_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 |             |

collection\_links

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

self\_link

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

connection\_status

FlexCache Connection Status Endpoint

| Name                  | Type                      | Description                                                 |
|-----------------------|---------------------------|-------------------------------------------------------------|
| _links                | <a href="#">self_link</a> |                                                             |
| conn_state            | string                    | Connection Status between the Flexcache and Origin volumes. |
| last_update_time      | string                    | Last update time of the connection status.                  |
| local_fg_msid         | integer                   | The local volume's Master Set ID.                           |
| node                  | string                    | Name of the node.                                           |
| remote_cluster        | string                    | Remote cluster.                                             |
| remote_endpoint       | string                    | Remote endpoint type.                                       |
| remote_svm            | string                    | Remote volume SVM.                                          |
| remote_svm_uuid       | string                    | Remote SVM UUID.                                            |
| remote_vol_const_msid | integer                   | Remote volume's Master Set ID.                              |

| Name          | Type   | Description         |
|---------------|--------|---------------------|
| remote_volume | string | Remote Volume name. |
| svm           | string | Volume SVM.         |
| svm_uuid      | string | Local SVM UUID.     |
| volume        | string | Local Volume name.  |

error\_arguments

| Name    | Type   | Description      |
|---------|--------|------------------|
| code    | string | Argument code    |
| message | string | Message argument |

returned\_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 connection status between a cache and origin volume

```
GET /storage/flexcache/connection-
status/{node}/{svm}/{local_fg_msid}/{remote_svm_uuid}/{remote_vol_const_msid}
```

**Introduced In:** 9.18

Retrieves connection status between a cache and origin volume.

### Related ONTAP commands

- `volume flexcache connection-status show`

## Learn more

- [DOC /storage/flexcache/connection-status](#)

## Parameters

| Name                  | Type          | In    | Required | Description                   |
|-----------------------|---------------|-------|----------|-------------------------------|
| node                  | string        | path  | True     | Node Name                     |
| svm                   | string        | path  | True     | SVM Name                      |
| local_fg_msid         | integer       | path  | True     | Local FG MSID                 |
| remote_svm_uuid       | string        | path  | True     | Remote SVM UUID               |
| remote_vol_const_msid | integer       | path  | True     | Remote Constituent MSID       |
| fields                | array[string] | query | False    | Specify the fields to return. |

## Response

Status: 200, Ok

| Name             | Type                      | Description                                                 |
|------------------|---------------------------|-------------------------------------------------------------|
| _links           | <a href="#">self_link</a> |                                                             |
| conn_state       | string                    | Connection Status between the Flexcache and Origin volumes. |
| last_update_time | string                    | Last update time of the connection status.                  |
| local_fg_msid    | integer                   | The local volume's Master Set ID.                           |
| node             | string                    | Name of the node.                                           |
| remote_cluster   | string                    | Remote cluster.                                             |
| remote_endpoint  | string                    | Remote endpoint type.                                       |
| remote_svm       | string                    | Remote volume SVM.                                          |

| Name                  | Type    | Description                    |
|-----------------------|---------|--------------------------------|
| remote_svm_uuid       | string  | Remote SVM UUID.               |
| remote_vol_const_msid | integer | Remote volume's Master Set ID. |
| remote_volume         | string  | Remote Volume name.            |
| svm                   | string  | Volume SVM.                    |
| svm_uuid              | string  | Local SVM UUID.                |
| volume                | string  | Local Volume name.             |

### Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "conn_state": "string",
  "last_update_time": "2018-06-04 19:00:00 +0000",
  "local_fg_msid": 0,
  "node": "string",
  "remote_cluster": "string",
  "remote_endpoint": "string",
  "remote_svm": "string",
  "remote_svm_uuid": "string",
  "remote_vol_const_msid": 0,
  "remote_volume": "string",
  "svm": "string",
  "svm_uuid": "string",
  "volume": "string"
}
```

### Error

Status: Default, Error

| Name  | Type                           | Description |
|-------|--------------------------------|-------------|
| error | <a href="#">returned_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 |             |

self\_link

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

error\_arguments

| Name    | Type   | Description      |
|---------|--------|------------------|
| code    | string | Argument code    |
| message | string | Message argument |

returned\_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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