



volume flexcache commands

ONTAP 9.5 commands

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volume flexcache commands

volume flexcache config-refresh

Refresh FlexCache configuration for a peer volume

Availability: This command is available to *cluster* administrators at the *advanced* privilege level.

Description

The `volume flexcache config-refresh` command is used to refresh the FlexCache configuration. It can be used to update the configuration on either the FlexCache or origin of a FlexCache cluster. This command only needs to be run if the automatic refresh failed and the corresponding EMS was generated.



This command must be run on the peer cluster. For example, refresh of origin of a FlexCache volume must be run from the FlexCache cluster. Refresh a FlexCache volume must be run from the of an origin of a FlexCache cluster.

Parameters

-peer-vserver <vserver name> - Peer Vserver

Name of the Vserver for which the configuration is being refreshed.

-peer-volume <volume name> - Peer Volume

Name of the volume for which the configuration is being refreshed.

-peer-endpoint-type {cache|origin} - Origin/Cache Volume

The peer-endpoint-type specifies the FlexCache endpoint type of the peer volume. Possible values are *cache* for FlexCache volumes and *origin* for origin of a FlexCache volumes.

Examples

The following example triggers config-refresh on origin of a FlexCache volume "origin1".

```
cluster1::> flexcache config-refresh -peer-vserver vs34 -peer-volume  
origin1 -peer-endpoint-type origin  
          (volume flexcache config-refresh)
```

The following example triggers config-refresh on FlexCache volume "fc1".

```
cluster1::> flexcache config-refresh -peer-vserver vs34 -peer-volume fc1
-peer-endpoint-type cache
          (volume flexcache config-refresh)
```

The following example triggers config-refresh on FlexCache volume "fc1" with an incorrect peer-endpoint-type.

```
cluster1::> flexcache config-refresh -peer-vserver vs34 -peer-volume fc1
-peer-endpoint-type origin
          (volume flexcache config-refresh)
Error: command failed: Failed to store the configuration for peer volume
"fc1"
          in Vserver "vs34" on cluster "cluster1". Check the
FlexCache
          configuration on the local cluster and retry the
operation.
```

volume flexcache create

Create a new cache relationship

Availability: This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

Description

The `volume flexcache create` command is used to create a FlexCache volume. It also creates the relationship between the FlexCache volume and the specified origin volume.



If the `vserver` and `origin-vserver` are different, the Vservers must be in a peer relationship.

Parameters

-vserver <vserver name> - Vserver

This specifies the Vserver on which the FlexCache volume is to be created.

-volume <volume name> - Cache Volume Name

This specifies the name of the FlexCache volume that is to be created.

{ -aggr-list <aggregate name>, ... - List of Aggregates for FlexGroup Constituents

Specifies an array of names of aggregates to be used for creating the FlexCache volume.

[`-aggr-list-multiplier` <integer>] - Aggregate List Repeat Count

Specifies the number of times to iterate over the aggregates listed with the `-aggr-list` parameter when creating a FlexGroup. The aggregate list will be repeated the specified number of times. Example:

```
-aggr-list aggr1,aggr2 -aggr-list-multiplier 2
```

will cause four constituents to be created in the order `aggr1`, `aggr2`, `aggr1`, `aggr2`.

+

The default value is 4.

[`-auto-provision-as` <FlexGroup> - Automatically Provision as Volume of Type }

Use this parameter to automatically select existing aggregates for provisioning the FlexCache volume.

[`-size` {<integer>[KB|MB|GB|TB|PB]}] - Volume Size

This optionally specifies the size of the FlexCache volume. The size is specified as a number followed by a unit designation: k (kilobytes), m (megabytes), g (gigabytes), or t (terabytes). If the unit designation is not specified, bytes are used as the unit, and the specified number is rounded up to the nearest 4 KB.

[`-origin-vserver` <vserver name>] - Origin Vserver Name

This specifies the name of the Vserver where the origin volume is located.

`-origin-volume` <volume name> - Origin Volume Name

This specifies the name of the origin volume.

[`-junction-path` <junction path>] - Cache Junction Path

This optionally specifies the FlexCache volume's junction path. The junction path name is case insensitive and must be unique within a Vserver's namespace.

[`-foreground` {true|false}] - Foreground Process

This specifies whether the operation runs in the foreground. The default setting is `true` (the operation runs in the foreground). When set to `true`, the command will not return until the operation completes.

Examples

The following example triggers FlexCache volume create:

```
cluster1::> flexcache create -vserver vs34 -volume fc1 -aggr-list
aggr34,aggr43 -origin-volume origin1 -size 400m
(volume flexcache create)
[Job 894] Job succeeded: Successful
```

```
cluster1::> flexcache create -vserver vs34 -volume fc3 -auto-provision-as
flexgroup -origin-volume origin1 -size 400m
(volume flexcache create)
[Job 898] Job succeeded: Successful
```

```
cluster1::> flexcache create -vserver vs34 -volume fc4 -aggr-list
aggr34,aggr43 -origin-volume origin1 -size 400m -junction-path /fc4
(volume flexcache create)
[Job 903] Job succeeded: Successful
```

volume flexcache delete

Delete a cache relationship

Availability: This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

Description

The `volume flexcache delete` command deletes the specified FlexCache volumes and their relationships.

NOTE:

- FlexCache volumes must be offline (see [volume offline](#)) to be deleted.

Parameters

-vserver <vserver name> - Vserver

This specifies the name of the Vserver from which the FlexCache volume is to be deleted.

-volume <volume name> - Cache Volume Name

This specifies the name of the FlexCache volume that is to be deleted.

[-foreground {true|false}] - Foreground Process

This specifies whether the operation runs in the foreground. The default setting is *true* (the operation runs in the foreground). When set to *true*, the command will not return until the operation completes.

Examples

The following example deletes FlexCache volume "fc1":

```
cluster1::> flexcache delete -volume fc1 -vserver vs34
(volume flexcache delete)
```

```
Error: command failed: Volume fc1 in Vserver vs34 must be offline to be
deleted. Use "volume offline -vserver vs34 -volume fc1" command to
offline the volume
```

```
cluster1::> volume offline -vserver vs34 -volume fc1
Volume "vs34:fc1" is now offline.
```

```
cluster1::> flexcache delete -volume fc1 -vserver vs34
(volume flexcache delete)
[Job 891] Job succeeded: Successful
```

```
cluster1::> flexcache delete -volume fc1 -vserver vs34 -foreground false
(volume flexcache delete)
```

Related Links

- [volume offline](#)

volume flexcache show

Display cache relationships

Availability: This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

Description

The `volume flexcache show` command displays information about FlexCache volumes. The command output depends on the parameter or parameters specified with the command. If no parameters are specified, the command displays the following information about all FlexCache volumes:

- Vserver name
- Volume name
- Size
- Origin Vserver
- Origin volume
- Origin cluster

To display detailed information about all FlexCache volumes, run the command with the `-instance` parameter.

Parameters

{ [-fields <fieldname>,...]

This specifies the fields that need to be displayed.

| [-instance] }

If this parameter is specified, the command displays information about all values.

[-vserver <vserver name>] - Vserver

If this parameter and the `-volume` parameter are specified, the command displays detailed information about the specified volume. If this parameter is specified by itself, the command displays information about FlexCache volumes on the specified Vserver.

[-volume <volume name>] - Cache Volume Name

If this parameter is specified, the command displays detailed information about the specified FlexCache volume.

[-aggr-list <aggregate name>,...] - List of Aggregates for FlexGroup Constituents

If this parameter is specified, the command displays information only about the FlexCache volume or volumes that are located on the specified list of storage aggregates.

[-size {<integer>[KB|MB|GB|TB|PB] }] - Volume Size

If this parameter is specified, the command displays information only about the FlexCache volume or volumes that have the specified size. Size is the maximum amount of space a volume can consume from its associated aggregate(s), including user data, metadata, Snapshot copies, and Snapshot reserve.

[-flexgroup-msid <integer>] - Cache Flexgroup MSID

If this parameter is specified, the command displays information only about the FlexCache volume or volumes that have the specified FlexGroup master data-set ID.

[-origin-vserver <vserver name>] - Origin Vserver Name

If this parameter is specified, the command displays information only about the FlexCache volume or volumes which have a relationship with the specified origin-vserver.

[-origin-vserver-uuid <UUID>] - Origin Vserver UUID

If this parameter is specified, the command displays information only about the FlexCache volume or volumes which have a relationship with the origin-vserver UUID.

[-origin-volume <volume name>] - Origin Volume Name

If this parameter is specified, the command displays information only about the FlexCache volume or volumes that have a relationship with the specified origin-volume.

[-origin-volume-msid <integer>] - Origin Volume MSID

If this parameter is specified, the command displays information only about the FlexCache volume or volumes that have a relationship with the specified origin master data set ID.

[-origin-cluster <Cluster name>] - Origin Cluster Name

If this parameter is specified, the command displays information only about the FlexCache volume or volumes that have a relationship with the specified origin-cluster.

[-junction-path <junction path>] - Cache Junction Path

If this parameter is specified, the command displays information only about the FlexCache volume or volumes that have the specified junction path.

[-create-time <Date>] - FlexCache Create Time

If you specify this parameter, the command displays information only about the FlexCache volume or volumes for which the `create-time` option matches the specified input.

Examples

The following example displays information about all FlexCache volumes on the Vserver named "vs34":

```
cluster1::> flexcache show -vserver vs34
(volume flexcache show)
Vserver Volume      Size      Origin-Vserver Origin-Volume
Origin-Cluster
-----
vs34    fc1        800MB     vs34         origin1
cluster-2
vs34    fc2        800MB     vs34         origin1
cluster-2
2 entries were displayed.
```

The following example displays detailed information about a FlexCache volume named fc1 on an SVM named vs34:

```
cluster1::> flexcache show -vserver vs34 -volume fc1 -instance
(volume flexcache show)
Vserver: vs34
Cache Volume Name: fc1
List of Aggregates for FlexGroup Constituents: aggr34
Volume Size: 800MB
Cache Flexgroup MSID: 2155934574
Origin Vserver Name: vs34
Origin Vserver UUID: a8717aeb-2826-11e8-bf56-
00505695f37a
Origin Volume Name: origin1
Origin Volume MSID: 2155934545
Origin Cluster Name: cluster-2
Cache Junction Path: -
FlexCache Create Time: Thu Aug 23 04:36:19 2018
```

volume flexcache sync-properties

Sync FlexCache volume properties with its origin

Availability: This command is available to *cluster* administrators at the *advanced* privilege level.

Description

The `volume flexcache sync-properties` command is used to sync a FlexCache volumes properties with its origin volume.



This command only needs to be used when there was a failure to sync properties from the origin of a FlexCache volume to the FlexCache volume.

Parameters

-vserver <vserver name> - Vserver Name

This specifies the Vserver on which the FlexCache volume is located.

-volume <volume name> - FlexCache Volume Name

This specifies the FlexCache volume whose properties need to be synced with its origin of a FlexCache volume.

Examples

```
cluster1::> flexcache sync-properties -volume fc1 -vserver vs34
(volume flexcache sync-properties)
```

volume flexcache origin cleanup-cache-relationship

Cleanup the cache relationship

Availability: This command is available to *cluster* and *Vserver* administrators at the *advanced* privilege level.

Description

The `volume flexcache origin cleanup-cache-relationship` command is used to cleanup the cache relationship on the origin of a FlexCache cluster.



This command only needs to be run if [volume flexcache delete](#) fails on the FlexCache cluster and prompts you to run this command.

Parameters

-origin-vserver <vserver name> - Origin Vserver

This specifies the name of the Vserver hosting the origin of a FlexCache volume.

-origin-volume <volume name> - Origin Volume

This specifies the name of the origin of a FlexCache volume.

-cache-vserver <vserver name> - Cache Vserver

This specifies the name of the Vserver hosting the FlexCache volume.

-cache-volume <volume name> - Cache Volume

This specifies the name of the FlexCache volume.

[-force-retry <true>] - Force Origin Cleanup Retry

This specifies whether the origin cleanup operation can be retried if it has previously failed. The default setting is *false*.



When the last FlexCache relationship is deleted, the origin cleanup operation needs to remove metadata from the filesystem. This can take a long time, and it's possible the operation will take too long and fail. In that case, the operation can be retried by running the cleanup command again and setting `force-retry` to true.

Examples

The following example cleans up the FlexCache relationship for the specified FlexCache and origin of a FlexCache volume:

```
cluster1::> flexcache origin cleanup-cache-relationship -origin-volume  
origin1 -origin-vserver vs34 -cache-vserver vs56 -cache-volume fc1  
(volume flexcache origin cleanup-cache-relationship)
```

```
Warning: The cache configuration will be deleted for Origin-Vserver: vs34,  
Origin-Volume: origin1, Cache-Vserver: vs56, Cache-Volume:  
fc1.
```

```
Do you want to continue? {y|n}: y
```

Related Links

- [volume flexcache delete](#)

volume flexcache origin show-caches

Display all the caches connected to origin

Availability: This command is available to *cluster* and *Vserver* administrators at the *admin* privilege level.

Description

The `volume flexcache origin show-caches` command displays FlexCache relationships for origin of a FlexCache volumes on the origin cluster.

Parameters

{ [-fields <fieldname>,...]

If you specify the `-fields <fieldname>`, ... parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

| [-instance] }

If you specify the `-instance` parameter, the command displays detailed information about all fields.

[-origin-vserver <vserver name>] - Vserver

If this parameter and the `origin-volume` parameter are specified, the command displays the FlexCache relationship for the specified origin of a FlexCache volume. If this parameter is specified by itself, the command displays all the FlexCache relationships for all origin of a FlexCache volumes in the specified Vserver.

[-origin-volume <volume name>] - Origin Volume

If this parameter is specified, the command displays all the FlexCache relationships for the specified origin of a FlexCache volume.

[-cache-vserver <vserver name>] - Cache Vserver

If this parameter is specified then the command displays FlexCache relationships for the specified Vserver hosting FlexCache volumes.

[-cache-volume <volume name>] - Cache Volume

If this parameter is specified then the command displays FlexCache relationships for the specified FlexCache volume.

[-cache-cluster <Cluster name>] - Cache Cluster

If this parameter is specified then the command displays FlexCache relationships for the specified cluster hosting FlexCache volumes.

[-cache-volume-msid <integer>] - Cache Volume MSID

If this parameter is specified then the command displays FlexCache relationships for the specified FlexCache volume's FlexGroup master data-set ID.

[-relationship-create-time <Date>] - Relationship Create Time

If you specify this parameter, the command displays FlexCache relationships for which the `relationship-create-time` option matches the specified input.

Examples

The following example displays information about all origin of a FlexCache volumes on the Vserver named vs34:

```

cluster1::> flexcache origin show-caches -origin-vserver vs34
(volume flexcache origin show-caches)
Origin-Vserver Origin-Volume Cache-Vserver Cache-Volume Cache-Cluster
-----
vs34          origin1      vs56          fc1_c3_origin1
                                     cluster-3
vs34          origin1      vs34          fc1           cluster-2
vs34          origin1      vs34          fc2           cluster-2
vs34          origin2_new vs56          fc1_c3_origin2
                                     cluster-3

4 entries were displayed.

```

```

cluster1::> flexcache origin show-caches -origin-vserver vs56 -instance
(volume flexcache origin show-caches)
Vserver: vs56
    Origin Volume: origin
    Cache Vserver: vs56
    Cache Volume: fc1
    Cache Cluster: cluster-3
    Cache Volume MSID: 2156002002
Relationship Create Time: Thu Aug 23 04:36:24 2018

```

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