



Manage data protection operations for FlexGroup volumes

ONTAP 9

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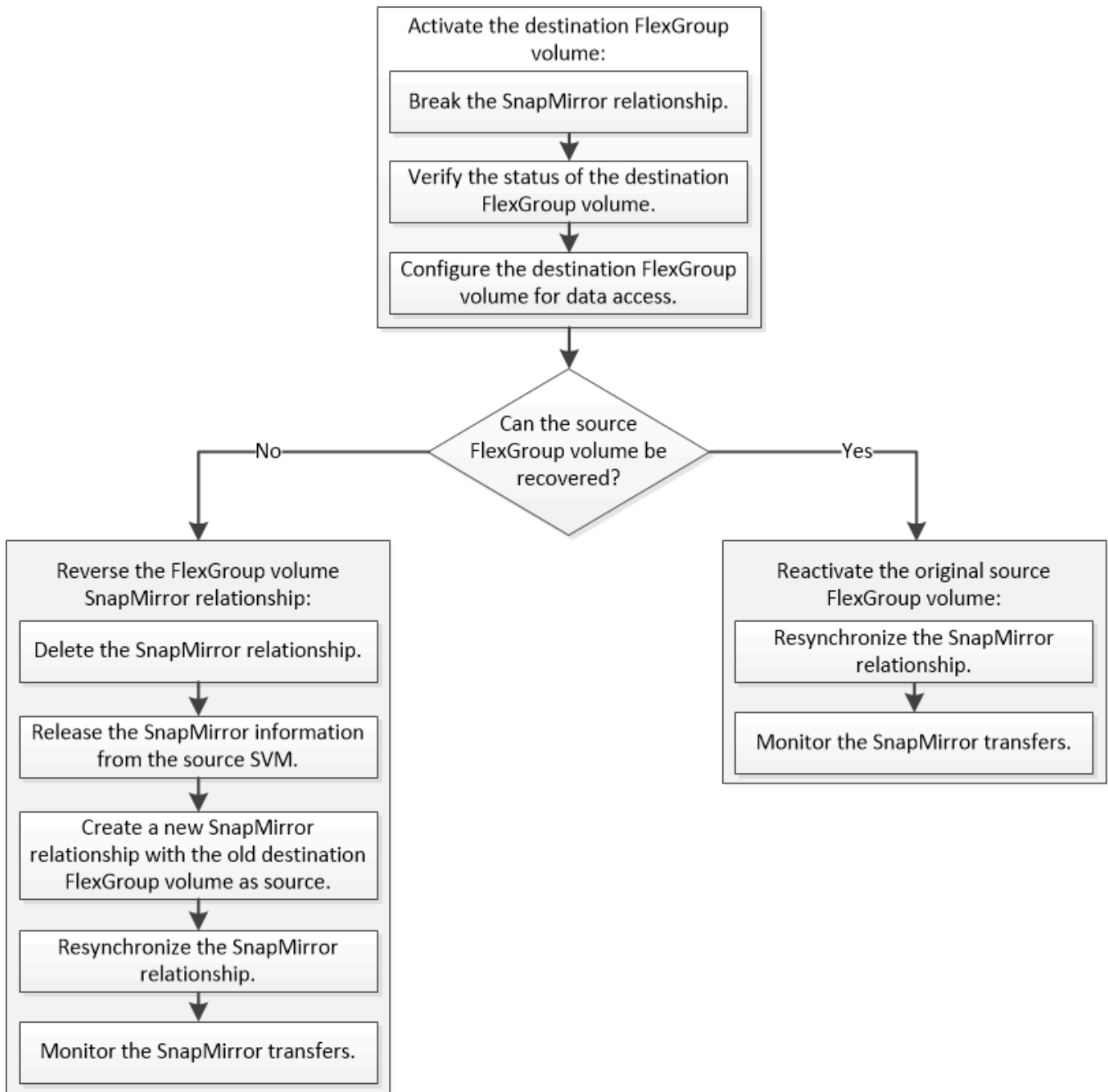
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Manage data protection operations for FlexGroup volumes

Disaster recovery for FlexGroup volumes

Disaster recovery workflow for ONTAP FlexGroup volumes

When a disaster strikes on the source FlexGroup volume, you should activate the destination FlexGroup volume and redirect client access. Depending on whether the source FlexGroup volume can be recovered, you should either reactivate the source FlexGroup volume or reverse the SnapMirror relationship.



About this task

Client access to the destination FlexGroup volume is blocked for a brief period when some SnapMirror operations, such as SnapMirror break and resynchronization, are running. If the SnapMirror operation fails, it is possible that some of the constituents remain in this state and access to the FlexGroup volume is denied. In such cases, you must retry the SnapMirror operation.

Activate the destination ONTAP FlexGroup volume

When the source FlexGroup volume is unable to serve data due to events such as data corruption, accidental deletion or an offline state, you must activate the destination FlexGroup volume to provide data access until you recover the data on the source FlexGroup volume. Activation involves stopping future SnapMirror data transfers and

breaking the SnapMirror relationship.

About this task

You must perform this task from the destination cluster.

Steps

1. Disable future transfers for the FlexGroup volume SnapMirror relationship: `snapmirror quiesce dest_svm:dest_flexgroup`

```
cluster2::> snapmirror quiesce -destination-path vsd:dst
```

2. Break the FlexGroup volume SnapMirror relationship: `snapmirror break dest_svm:dest_flexgroup`

```
cluster2::> snapmirror break -destination-path vsd:dst
```

3. View the status of the SnapMirror relationship: `snapmirror show -expand`

```
cluster2::> snapmirror show -expand
```

Progress	Source	Destination	Mirror	Relationship	Total		
Last	Path	Type	Path	State	Status	Progress	Healthy
Updated							
-----	-----	-----	-----	-----	-----	-----	-----

vss:s	XDP	vsd:dst	Broken-off				
			Idle		-	true	-
vss:s__0001	XDP	vsd:dst__0001	Broken-off				
			Idle		-	true	-
vss:s__0002	XDP	vsd:dst__0002	Broken-off				
			Idle		-	true	-
vss:s__0003	XDP	vsd:dst__0003	Broken-off				
			Idle		-	true	-
vss:s__0004	XDP	vsd:dst__0004	Broken-off				
			Idle		-	true	-
vss:s__0005	XDP	vsd:dst__0005	Broken-off				
			Idle		-	true	-
vss:s__0006	XDP	vsd:dst__0006	Broken-off				
			Idle		-	true	-
vss:s__0007	XDP	vsd:dst__0007	Broken-off				
			Idle		-	true	-
vss:s__0008	XDP	vsd:dst__0008	Broken-off				
			Idle		-	true	-
...							

The SnapMirror relationship status of each constituent is Broken-off.

4. Verify that the destination FlexGroup volume is read/write: `volume show -vserver svm_name`

```
cluster2::> volume show -vserver vsd
```

Vserver	Volume	Aggregate	State	Type	Size
Available	Used%				
-----	-----	-----	-----	-----	-----
vsd	dst	-	online	**RW**	2GB
1.54GB	22%				
vsd	d2	-	online	DP	2GB
1.55GB	22%				
vsd	root_vs0	aggr1	online	RW	100MB
94.02MB	5%				

3 entries were displayed.

5. Redirect clients to the destination FlexGroup volume.

Related information

- [snapmirror break](#)
- [snapmirror quiesce](#)
- [snapmirror show](#)

Reactivate the original source ONTAP FlexGroup volume after disaster

When the source FlexGroup volume becomes available, you can resynchronize the original source and original destination FlexGroup volumes. Any new data on the destination FlexGroup volume is lost.

About this task

Any active quota rules on the destination volume are deactivated and the quota rules are deleted before resynchronization is performed.

You can use the `volume quota policy rule create` and `volume quota modify` commands to create and reactivate quota rules after the resynchronization operation is complete.

Steps

1. From the destination cluster, resynchronize the FlexGroup volume SnapMirror relationship: `snapmirror resync -destination-path dst_svm:dest_flexgroup`
2. View the status of the SnapMirror relationship: `snapmirror show -expand`

```
cluster2::> snapmirror show -expand
```

Progress	Source	Destination	Mirror	Relationship	Total		
Last	Path	Type	Path	State	Status	Progress	Healthy
Updated							
-----	-----	-----	-----	-----	-----	-----	-----

vss:s	XDP	vsd:dst	Snapmirrored	Idle	-	true	-
vss:s__0001	XDP	vsd:dst__0001	Snapmirrored	Idle	-	true	-
vss:s__0002	XDP	vsd:dst__0002	Snapmirrored	Idle	-	true	-
vss:s__0003	XDP	vsd:dst__0003	Snapmirrored	Idle	-	true	-
vss:s__0004	XDP	vsd:dst__0004	Snapmirrored	Idle	-	true	-
vss:s__0005	XDP	vsd:dst__0005	Snapmirrored	Idle	-	true	-
vss:s__0006	XDP	vsd:dst__0006	Snapmirrored	Idle	-	true	-
vss:s__0007	XDP	vsd:dst__0007	Snapmirrored	Idle	-	true	-
vss:s__0008	XDP	vsd:dst__0008	Snapmirrored	Idle	-	true	-
...							

The SnapMirror relationship status of each constituent is Snapmirrored.

Related information

- [snapmirror resync](#)
- [snapmirror show](#)

Reverse SnapMirror relationships between ONTAP FlexGroup volumes during disaster recovery

When a disaster disables the source FlexGroup volume of a SnapMirror relationship, you can use the destination FlexGroup volume to serve data while you repair or replace the source FlexGroup volume. After the source FlexGroup volume is online, you can make the original source FlexGroup volume a read-only destination and reverse the SnapMirror relationship.

About this task

Any active quota rules on the destination volume are deactivated and the quota rules are deleted before resynchronization is performed.

You can use the `volume quota policy rule create` and `volume quota modify` commands to create and reactivate quota rules after the resynchronization operation is complete.

Steps

1. On the original destination FlexGroup volume, remove the data protection mirror relationship between the source FlexGroup volume and the destination FlexGroup volume: `snapmirror delete -destination -path svm_name:volume_name`

```
cluster2::> snapmirror delete -destination-path vsd:dst
```

2. On the original source FlexGroup volume, remove the relationship information from the source FlexGroup volume: `snapmirror release -destination-path svm_name:volume_name -relationship -info-only`

After deleting a SnapMirror relationship, you must remove the relationship information from the source FlexGroup volume before attempting a resynchronization operation.

```
cluster1::> snapmirror release -destination-path vsd:dst -relationship  
-info-only true
```

3. On the new destination FlexGroup volume, create the mirror relationship: `snapmirror create -source-path src_svm_name:volume_name -destination-path dst_svm_name:volume_name -type XDP -policy MirrorAllSnapshots`

```
cluster1::> snapmirror create -source-path vsd:dst -destination-path  
vss:src -type XDP -policy MirrorAllSnapshots
```

Learn more about `snapmirror create` in the [ONTAP command reference](#).

4. On the new destination FlexGroup volume, resynchronize the source FlexGroup: `snapmirror resync -source-path svm_name:volume_name`

```
cluster1::> snapmirror resync -source-path vsd:dst
```

5. Monitor the SnapMirror transfers: `snapmirror show -expand`

```
cluster2::> snapmirror show -expand
```

```
Progress
Source          Destination Mirror Relationship Total
Last
Path           Type Path           State Status           Progress Healthy
Updated
-----
-----
vsd:dst         XDP  vss:src         Snapmirrored
                  Idle           -           true  -
vss:dst__0001   XDP  vss:src__0001   Snapmirrored
                  Idle           -           true  -
vss:dst__0002   XDP  vss:src__0002   Snapmirrored
                  Idle           -           true  -
vss:dst__0003   XDP  vss:src__0003   Snapmirrored
                  Idle           -           true  -
vss:dst__0004   XDP  vss:src__0004   Snapmirrored
                  Idle           -           true  -
vss:dst__0005   XDP  vss:src__0005   Snapmirrored
                  Idle           -           true  -
vss:dst__0006   XDP  vss:src__0006   Snapmirrored
                  Idle           -           true  -
vss:dst__0007   XDP  vss:src__0007   Snapmirrored
                  Idle           -           true  -
vss:dst__0008   XDP  vss:src__0008   Snapmirrored
                  Idle           -           true  -
...
```

The SnapMirror relationship status of each constituent shows as Snapmirrored that indicates that the resynchronization was successful.

Related information

- [snapmirror create](#)
- [snapmirror delete](#)
- [snapmirror release](#)
- [snapmirror resync](#)
- [snapmirror show](#)

Expand FlexGroup volumes in a SnapMirror relationship

Expand ONTAP FlexGroup volumes in a SnapMirror relationship

Beginning with ONTAP 9.3, you can expand the source FlexGroup volume and

destination FlexGroup volume that are in a SnapMirror relationship by adding new constituents to the volumes. You can expand the destination volumes either manually or automatically.

About this task

- This task is not applicable to SVM-DR relationships, which automatically manage the expansion of the FlexGroup volume.
- After expansion, the number of constituents in the source FlexGroup volume and destination FlexGroup volume of a SnapMirror relationship must match.

If the number of constituents in the volumes does not match, the SnapMirror transfers fail.

- You should not perform any SnapMirror operation when the expansion process is in progress.
- If a disaster strikes before the expansion process is complete, you must break the SnapMirror relationship and wait until the operation succeeds.



You should break the SnapMirror relationship when the expansion process is in progress only in the case of a disaster. In the case of a disaster, the break operation can take some time to complete. You should wait for the break operation to get completed successfully before performing a resync operation. If the break operation fails, you must retry the break operation. If the break operation fails, some of the new constituents might remain in the destination FlexGroup volume after the break operation. It is best to delete these constituents manually before proceeding further.

Expand the source ONTAP FlexGroup volume of a SnapMirror relationship

Beginning with ONTAP 9.3, you can expand the source FlexGroup volume of a SnapMirror relationship by adding new constituents to the source volume. You can expand the source volume in the same way that you expand a regular FlexGroup volume (read-write volume).

Steps

1. Expand the source FlexGroup volume: `volume expand -vserver vs_server_name -volume fg_src -aggr-list aggregate name,... [-aggr-list-multiplier constituents_per_aggr]`

```
cluster1::> volume expand -volume src_fg -aggr-list aggr1 -aggr-list
-multiplier 2 -vserver vs_src
```

```
Warning: The following number of constituents of size 50GB will be added
to FlexGroup "src_fg": 2.
```

```
Expanding the FlexGroup will cause the state of all Snapshot copies to
be set to "partial".
```

```
Partial Snapshot copies cannot be restored.
```

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

```
[Job 146] Job succeeded: Successful
```

The state of all of the snapshots that are taken before the volume is expanded changes to partial.

Expand the destination ONTAP FlexGroup volume of a SnapMirror relationship

You can expand the destination FlexGroup volume and reestablish the SnapMirror relationship either automatically or manually. By default, the SnapMirror relationship is set for automatic expansion, and the destination FlexGroup volume expands automatically if the source volume expands.

Before you begin

- The source FlexGroup volume must have been expanded.
- The SnapMirror relationship must be in the `SnapMirrored` state.

The SnapMirror relationship must not be broken or deleted.

About this task

- When the destination FlexGroup volume is created, the volume is set up for automatic expansion by default.

You can modify the destination FlexGroup volume for manual expansion, if required.



The best practice is to expand the destination FlexGroup volume automatically.

- All SnapMirror operations fail until both the source FlexGroup volume and destination FlexGroup volume have expanded and have the same number of constituents.
- If you expand the destination FlexGroup volume after the SnapMirror relationship is broken or deleted, you cannot resync the original relationship again.

If you intend to reuse the destination FlexGroup volume, do not expand the volume after deleting the SnapMirror relationship.

Choices

- Perform an update transfer to expand the destination FlexGroup volume automatically:
 - a. Perform a SnapMirror update transfer: `snapmirror update -destination-path svm:vol_name`
 - b. Verify that the status of the SnapMirror relationship is in the `SnapMirrored` state: `snapmirror show`

```
cluster2::> snapmirror show
```

```
Progress
Source          Destination Mirror Relationship Total
Last
Path           Type Path           State Status           Progress
Healthy Updated
-----
vs_src:src_fg
                XDP vs_dst:dst_fg
                        Snapmirrored
                        Idle           -           true
-
```

Based on the size and availability of aggregates, the aggregates are automatically selected, and new constituents that match the constituents of the source FlexGroup volume are added to the destination FlexGroup volume. After expansion, a resynchronization operation is automatically triggered.

- Expand the destination FlexGroup volume manually:

- If the SnapMirror relationship is in the auto-expand mode, set the SnapMirror relationship to the manual expand mode: `snapmirror modify -destination-path svm:vol_name -is-auto-expand -enabled false`

```
cluster2::> snapmirror modify -destination-path vs_dst:dst_fg -is
-auto-expand-enabled false
Operation succeeded: snapmirror modify for the relationship with
destination "vs_dst:dst_fg".
```

- Quiesce the SnapMirror relationship: `snapmirror quiesce -destination-path svm:vol_name`

```
cluster2::> snapmirror quiesce -destination-path vs_dst:dst_fg
Operation succeeded: snapmirror quiesce for destination
"vs_dst:dst_fg".
```

- Expand the destination FlexGroup volume: `volume expand -vserver vs_server_name -volume fg_name -aggr-list aggregate name,... [-aggr-list-multiplier constituents_per_aggr]`

```
cluster2::> volume expand -volume dst_fg -aggr-list aggr1 -aggr-list
-multiplier 2 -vserver vs_dst
```

Warning: The following number of constituents of size 50GB will be added to FlexGroup "dst_fg": 2.

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

[Job 68] Job succeeded: Successful

- d. Resynchronize the SnapMirror relationship: `snapmirror resync -destination-path svm:vol_name`

```
cluster2::> snapmirror resync -destination-path vs_dst:dst_fg
Operation is queued: snapmirror resync to destination
"vs_dst:dst_fg".
```

- e. Verify that the status of the SnapMirror relationship is SnapMirrored: `snapmirror show`

```
cluster2::> snapmirror show
```

Progress

Source	Destination	Mirror	Relationship	Total	
Last Path	Type	Path	State	Status	Progress
Healthy	Updated				
-----	----	-----	-----	-----	-----
-----	-----				
vs_src:src_fg	XDP	vs_dst:dst_fg	Snapmirrored		
			Idle	-	true
-					

Related information

- [snapmirror quiesce](#)
- [snapmirror resync](#)
- [snapmirror show](#)

Perform a SnapMirror single file restore from an ONTAP FlexGroup volume

Beginning with ONTAP 9.8, you can restore a single file from a FlexGroup SnapMirror vault or from a UDP destination.

About this task

- You can restore from a FlexGroup volume of any geometry to FlexGroup volume of any geometry.
- Only one file per restore operation is supported.
- You can restore to either the original source FlexGroup volume or to a new FlexGroup volume.
- Remote fenced file lookup is not supported.

Single file restore fails if the source file is fenced.

- You can restart or clean up an aborted single file restore.
- You should clean up a failed single file restore transfer by using the `clean-up-failure` option of the `snapmirror restore` command.

Learn more about `snapmirror restore` in the [ONTAP command reference](#).

- Expansion of FlexGroup volumes is supported when a FlexGroup single file restore is in progress or in an aborted state.

Steps

1. Restore a file from a FlexGroup volume: `snapmirror restore -destination-path destination_path -source-path source_path -file-list /f1 -throttle throttle -source-snapshot snapshot`

The following is an example of a FlexGroup volume single file restore operation.

```
vserverA::> snapmirror restore -destination-path vs0:fg2 -source-path
vs0:fgd -file-list /f1 -throttle 5 -source-snapshot snapmirror.81072ce1-
d57b-11e9-94c0-005056a7e422_2159190496.2019-09-19_062631
[Job 135] Job is queued: snapmirror restore from source "vs0:fgd" for
the snapshot snapmirror.81072ce1-d57b-11e9-94c0-
005056a7e422_2159190496.2019-09-19_062631.
vserverA::> snapmirror show
```

Source	Destination	Mirror	Relationship
Total	Last		
Path	Type	Path	State
Healthy	Updated		Status
Progress			
-----	----	-----	-----
-----	-----	-----	-----
vs0:v1d	RST	vs0:v2	-
true	09/19 11:38:42		Transferring Idle 83.12KB

```
vserverA::*> snapmirror show vs0:fg2
```

```
Source Path: vs0:fgd
Source Cluster: -
Source Vserver: vs0
Source Volume: fgd
```

Destination Path: vs0:fg2
Destination Cluster: -
Destination Vserver: vs0
Destination Volume: fg2
Relationship Type: RST
Relationship Group Type: none
Managing Vserver: vs0
SnapMirror Schedule: -
SnapMirror Policy Type: -
SnapMirror Policy: -
Tries Limit: -
Throttle (KB/sec): unlimited
Current Transfer Throttle (KB/sec): 2
Mirror State: -
Relationship Status: Transferring
File Restore File Count: 1
File Restore File List: f1
Transfer Snapshot: snapmirror.81072ce1-d57b-11e9-94c0-005056a7e422_2159190496.2019-09-19_062631
Snapshot Progress: 2.87MB
Total Progress: 2.87MB
Network Compression Ratio: 1:1
Snapshot Checkpoint: 2.97KB
Newest Snapshot: -
Newest Snapshot Timestamp: -
Exported Snapshot: -
Exported Snapshot Timestamp: -
Healthy: true
Physical Replica: -
Relationship ID: e6081667-dacb-11e9-94c0-005056a7e422
Source Vserver UUID: 81072ce1-d57b-11e9-94c0-005056a7e422
Destination Vserver UUID: 81072ce1-d57b-11e9-94c0-005056a7e422
Current Operation ID: 138f12e6-dacc-11e9-94c0-005056a7e422
Transfer Type: cg_file_restore
Transfer Error: -
Last Transfer Type: -
Last Transfer Error: -
Last Transfer Error Codes: -
Last Transfer Size: -
Last Transfer Network Compression Ratio: -
Last Transfer Duration: -
Last Transfer From: -
Last Transfer End Timestamp: -
Unhealthy Reason: -
Progress Last Updated: 09/19 07:07:36
Relationship Capability: 8.2 and above


```
Lag Time: -
Current Transfer Priority: normal
SMTape Operation: -
Constituent Relationship: false
Destination Volume Node Name: vserverA
Identity Preserve Vserver DR: -
Number of Successful Updates: 0
Number of Failed Updates: 0
Number of Successful Resyncs: 0
Number of Failed Resyncs: 0
Number of Successful Breaks: 0
Number of Failed Breaks: 0
Total Transfer Bytes: 0
Total Transfer Time in Seconds: 0
Source Volume MSIDs Preserved: -
OpMask: ffffffffffffffff
Is Auto Expand Enabled: -
Source Endpoint UUID: -
Destination Endpoint UUID: -
Is Catalog Enabled: false
```

Related information

- [snapmirror show](#)

Restore ONTAP FlexGroup volumes from SnapVault backups

You can perform a full-volume restore operation of FlexGroup volumes from a snapshot in the SnapVault secondary volume. You can restore the FlexGroup volume either to the original source volume or to a new FlexGroup volume.

Before you begin

You must be aware of certain considerations when you restore from SnapVault backups for FlexGroup volumes.

- Only baseline restore is supported with partial snapshots from a SnapVault backup.
The number of constituents in the destination volume must match the number of constituents in the source volume when the snapshot was taken.
- If a restore operation fails, no other operations are allowed until the restore operation is complete.
You can either retry the restore operation or run the restore operation with the `cleanup` parameter.
- A FlexGroup volume can be the source volume of only one backup relationship or restore relationship.
A FlexGroup volume cannot be the source of two SnapVault relationships, two restore relationships, or a SnapVault relationship and a restore relationship.
- SnapVault backup and restore operations cannot run in parallel.
When either a baseline restore operation or an incremental restore operation is in progress, you should

quiesce the backup operations.

- You must abort a restore operation of a partial snapshot from the destination FlexGroup volume. You cannot abort the restore operation of a partial snapshot from the source volume.
- If you abort a restore operation, you must restart the restore operation with the same snapshot that was used for the previous restore operation.

About this task

Any active quota rules on the destination FlexGroup volume are deactivated before the restore is performed.

You can use the `volume quota modify` command to reactivate quota rules after the restore operation is complete.

Steps

1. Restore the FlexGroup volume: `snapmirror restore -source-path src_svm:src_flexgroup -destination-path dest_svm:dest_flexgroup -snapshot snapshot_name`
`snapshot_name` is the snapshot that is to be restored from the source volume to the destination volume. If the snapshot is not specified, the destination volume is restored from the latest snapshot.

```
vserverA::> snapmirror restore -source-path vserverB:dstFG -destination
-path vserverA:newFG -snapshot daily.2016-07-15_0010
Warning: This is a disruptive operation and the volume vserverA:newFG
will be read-only until the operation completes
Do you want to continue? {y|n}: y
```

Related information

- [snapmirror restore](#)

Disable SVM protection on ONTAP FlexGroup volumes

When the SVM DR flag is set to `protected` on a FlexGroup volume, you can set the flag to `unprotected` to disable SVM DR protection on a FlexGroup volume.

Before you begin

- The SVM DR relationship between the primary and secondary is healthy.
- SVM DR protection parameter is set to `protected`.

Steps

1. Disable protection by using the `volume modify` command to change the `vserver-dr-protection` parameter for the FlexGroup volume to `unprotected`.

```
cluster2::> volume modify -vserver vs1 -volume fg_src -vserver-dr
-protection unprotected
[Job 5384] Job is queued: Modify fg_src.
[Job 5384] Steps completed: 4 of 4.
cluster2::>
```

2. Update the SVM at the secondary site: `snapmirror update -destination-path destination_svm_name: -source-path Source_svm_name:`
3. Verify that the SnapMirror relationship is healthy: `snapmirror show`
4. Verify that the FlexGroup SnapMirror relationship has been removed: `snapmirror show -expand`

Related information

- [snapmirror show](#)
- [snapmirror update](#)

Enable SVM protection on ONTAP FlexGroup volumes

When the SVM DR protection flag is set to `unprotected` on a FlexGroup volume, you can set the flag to `protected` to enable SVM DR protection.

Before you begin

- The SVM DR relationship between the primary and secondary is healthy.
- SVM DR protection parameter is set to `unprotected`.

Steps

1. Enable protection by using the `volume modify` to change the `vserver-dr-protection` parameter for the FlexGroup volume to `protected`.

```
cluster2::> volume modify -vserver vs1 -volume fg_src -vserver-dr
-protection protected
[Job 5384] Job is queued: Modify fg_src.
[Job 5384] Steps completed: 4 of 4.
cluster2::>
```

2. Update the SVM at the secondary site: `snapmirror update -destination-path destination_svm_name -source-path source_svm_name`

```
snapmirror update -destination-path vs1_dst: -source-path vs1:
```

3. Verify that the SnapMirror relationship is healthy: `snapmirror show`

```
cluster2::> snapmirror show
```

Progress

Source	Destination	Mirror	Relationship	Total
--------	-------------	--------	--------------	-------

Last

Path	Type	Path	State	Status	Progress	Healthy
------	------	------	-------	--------	----------	---------

Updated

vs1:	XDP	vs1_dst:	Snapmirrored			
			Idle		-	true
						-

4. Verify that the FlexGroup SnapMirror relationship is healthy: `snapmirror show -expand`

```
cluster2::> snapmirror show -expand
```

Progress	Source	Destination	Mirror	Relationship	Total		
Last	Path	Type	Path	State	Status	Progress	Healthy
Updated							
-----	----	-----	-----	-----	-----	-----	-----
	vs1:	XDP	vs1_dst:	Snapmirrored			
				Idle		-	true -
	vs1:fg_src	XDP	vs1_dst:fg_src	Snapmirrored			
				Idle		-	true -
	vs1:fg_src__0001						
		XDP	vs1_dst:fg_src__0001	Snapmirrored			
				Idle		-	true -
	vs1:fg_src__0002						
		XDP	vs1_dst:fg_src__0002	Snapmirrored			
				Idle		-	true -
	vs1:fg_src__0003						
		XDP	vs1_dst:fg_src__0003	Snapmirrored			
				Idle		-	true -
	vs1:fg_src__0004						
		XDP	vs1_dst:fg_src__0004	Snapmirrored			
				Idle		-	true -

6 entries were displayed.

Related information

- [snapmirror show](#)

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