



Disaster recovery for FlexGroup volumes

ONTAP 9

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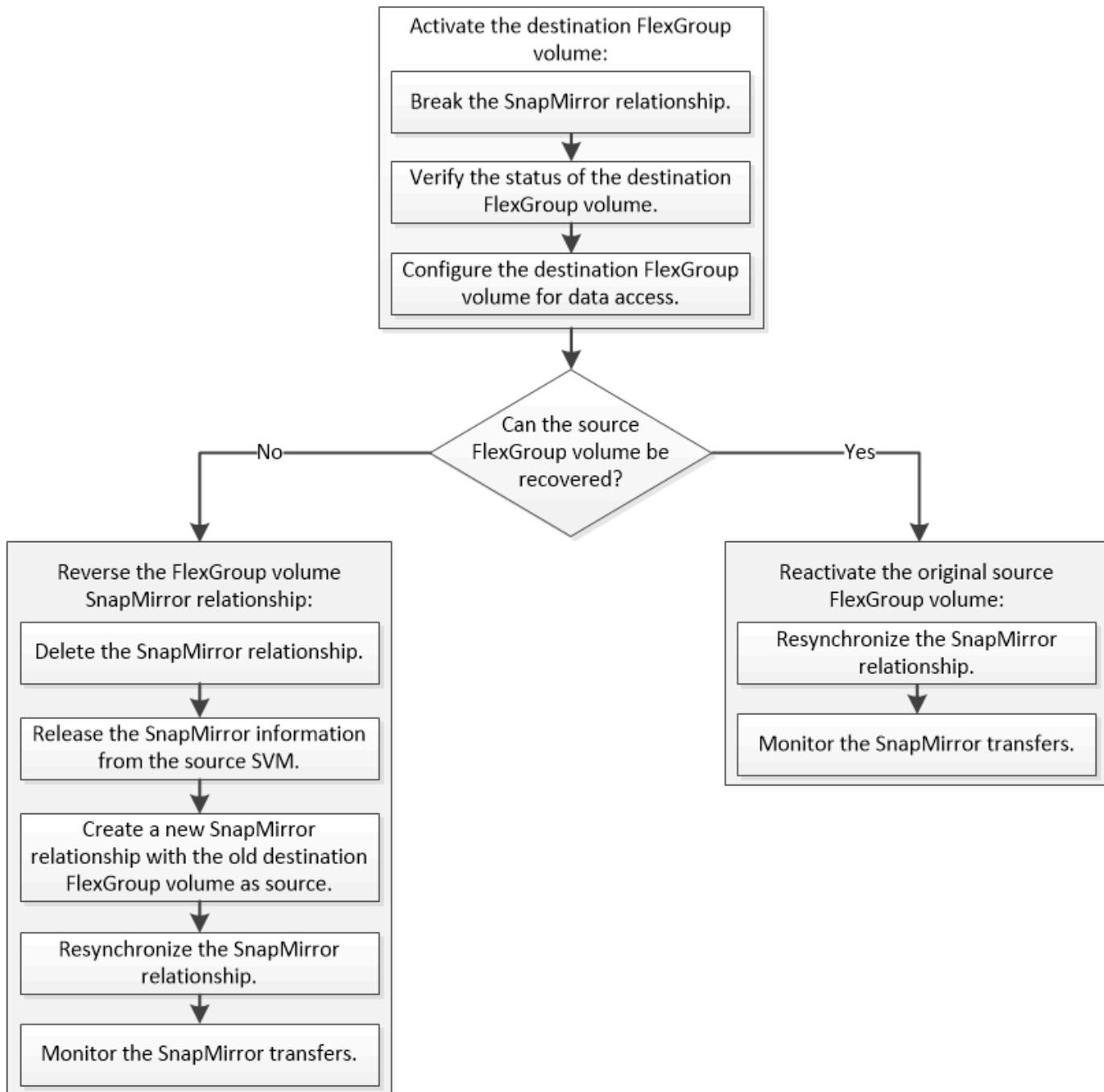
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Disaster recovery for FlexGroup volumes

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
vss:s	XDP	vsd:dst		Broken-off			
				Idle		-	true
vss:s_0001	XDP	vsd:dst_0001		Broken-off		-	true
				Idle		-	true
vss:s_0002	XDP	vsd:dst_0002		Broken-off		-	true
				Idle		-	true
vss:s_0003	XDP	vsd:dst_0003		Broken-off		-	true
				Idle		-	true
vss:s_0004	XDP	vsd:dst_0004		Broken-off		-	true
				Idle		-	true
vss:s_0005	XDP	vsd:dst_0005		Broken-off		-	true
				Idle		-	true
vss:s_0006	XDP	vsd:dst_0006		Broken-off		-	true
				Idle		-	true
vss:s_0007	XDP	vsd:dst_0007		Broken-off		-	true
				Idle		-	true
vss:s_0008	XDP	vsd:dst_0008		Broken-off		-	true
				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
Updated

vss:s          XDP   vsd:dst    Snapmirrored
                           Idle
                           -
vss:s_0001     XDP   vsd:dst_0001 Snapmirrored
                           Idle
                           -
vss:s_0002     XDP   vsd:dst_0002 Snapmirrored
                           Idle
                           -
vss:s_0003     XDP   vsd:dst_0003 Snapmirrored
                           Idle
                           -
vss:s_0004     XDP   vsd:dst_0004 Snapmirrored
                           Idle
                           -
vss:s_0005     XDP   vsd:dst_0005 Snapmirrored
                           Idle
                           -
vss:s_0006     XDP   vsd:dst_0006 Snapmirrored
                           Idle
                           -
vss:s_0007     XDP   vsd:dst_0007 Snapmirrored
                           Idle
                           -
vss:s_0008     XDP   vsd:dst_0008 Snapmirrored
                           Idle
                           -
...

```

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 Updated	Type	Path	State	Status	Progress	Healthy	
vsd:dst	XDP	vss:src	Snapmirrored				
			Idle		-	true	
vss:dst_0001	XDP	vss:src_0001	Snapmirrored				
			Idle		-	true	
vsd:dst_0002	XDP	vss:src_0002	Snapmirrored				
			Idle		-	true	
vsd:dst_0003	XDP	vss:src_0003	Snapmirrored				
			Idle		-	true	
vsd:dst_0004	XDP	vss:src_0004	Snapmirrored				
			Idle		-	true	
vsd:dst_0005	XDP	vss:src_0005	Snapmirrored				
			Idle		-	true	
vsd:dst_0006	XDP	vss:src_0006	Snapmirrored				
			Idle		-	true	
vsd:dst_0007	XDP	vss:src_0007	Snapmirrored				
			Idle		-	true	
vsd: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](#)

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