



Transitioning a secondary volume

ONTAP 7-Mode Transition

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Transitioning a secondary volume involves creating a SnapMirror relationship, performing a baseline transfer, performing incremental updates, and setting up a SnapMirror relationship between the 7-Mode primary volume and the clustered Data ONTAP secondary volume.

The secondary cluster and storage virtual machine (SVM) must already be set up.

Steps

1. Copy data from the 7-Mode volume to the clustered Data ONTAP volume:
 - a. Use the `snapmirror create` command with the relationship type as TDP to create a SnapMirror relationship between the 7-Mode system and the SVM.

```
sec_cluster::> snapmirror create -source-path sec_system:dst_7_vol
-destination-path dst_vserver:dst_c_vol -type TDP
Operation succeeded: snapmirror create the relationship with
destination dst_vserver:dst_c_vol.
```

- b. Use the `snapmirror initialize` command to start the baseline transfer.

```
sec_cluster::> snapmirror initialize -destination-path
dst_vserver:dst_c_vol
Operation is queued: snapmirror initialize of destination
dst_vserver:dst_c_vol.
```

- c. Depending on whether you want to update the clustered Data ONTAP volume manually or by setting up a SnapMirror schedule, perform the appropriate action:

If you want to...	Then...
Update transfers manually	<p>i. Use the <code>snapmirror update</code> command.</p> <div style="border: 1px solid #ccc; padding: 10px; background-color: #f9f9f9;"><pre>sec_cluster::> snapmirror update -destination-path dst_vserver:dst_c_vol</pre></div> <p>ii. Use the <code>snapmirror show</code> command to monitor the data copy status.</p>

If you want to...	Then...
Perform scheduled update transfers	<ol style="list-style-type: none"><li>i. Use the <code>job schedule cron create</code> command to create a schedule for update transfers. <pre>sec_cluster:> job schedule cron create -name 15_minute_sched -minute 15</pre><li>ii. Use the <code>snapmirror modify</code> command to apply the schedule to the SnapMirror relationship. <pre>sec_cluster:> snapmirror modify -destination-path dst_vserver:dst_c_vol -schedule 15_minute_sched</pre><li>iii. Use the <code>snapmirror show</code> command to monitor the data copy status.

2. If you have a schedule for incremental transfers, perform the following steps when you are ready to perform cutover:

a. Use the `snapmirror quiesce` command to disable all future update transfers.

```
sec_cluster::> snapmirror quiesce -destination-path
dst_vserver:dst_vol
```

b. Use the `snapmirror modify` command to delete the SnapMirror schedule.

```
sec_cluster::> snapmirror modify -destination-path
dst_vserver:dst_vol -schedule ""
```

c. If you quiesced the SnapMirror transfers earlier, use the `snapmirror resume` command to enable SnapMirror transfers.

```
sec_cluster::> snapmirror resume -destination-path
dst_vserver:dst_vol
```

3. Wait for any ongoing transfers between the 7-Mode volumes and the clustered Data ONTAP volumes to finish, and then disconnect client access from the 7-Mode volumes to start cutover.

4. Use the `snapmirror update` command to perform a final data update to the clustered Data ONTAP volume.

```
sec_cluster::> snapmirror update -destination-path dst_vserver:dst_vol
Operation is queued: snapmirror update of destination
dst_vserver:dst_vol.
```

5. Use the `snapmirror show` command to verify that the last transfer was successful.

6. Use the `snapmirror break` command to break the SnapMirror relationship between the 7-Mode secondary volume and the clustered Data ONTAP secondary volume.

```
sec_cluster::> snapmirror break -destination-path dst_vserver:dst_vol
[Job 60] Job succeeded: SnapMirror Break Succeeded
```

7. If your volumes have LUNs configured, at the advanced privilege level, use the `lun transition 7-mode show` command to verify that the LUNs were transitioned.

You can also use the `lun show` command on the clustered Data ONTAP volume to view all of the LUNs that were successfully transitioned.

8. Use the `snapmirror delete` command to delete the SnapMirror relationship between the 7-Mode secondary volume and the clustered Data ONTAP secondary volume.

```
sec_cluster::> snapmirror delete -destination-path dst_vserver:dst_vol
```

9. Use the `snapmirror release` command to remove the SnapMirror relationship information from the 7-Mode system.

```
system7mode> snapmirror release dataVol120 vs1:dst_vol
```

10. Establish a disaster recovery relationship between the 7-Mode primary volume and clustered Data ONTAP secondary volume:

- a. Use the `vserver peer transition create` command to create an SVM peer relationship between the 7-Mode primary volume and the clustered Data ONTAP secondary volume.

```
sec_cluster::> vserver peer transition create -local-vserver  
dst_vserver -src-filer-name src_system  
Transition peering created
```

- b. Use the `job schedule cron create` command to create a job schedule that matches the schedule configured for the 7-Mode SnapMirror relationship.

```
sec_cluster::> job schedule cron create -name 15_minute_sched -minute  
15
```

- c. Use the `snapmirror create` command to create a SnapMirror relationship between the 7-Mode primary volume and the clustered Data ONTAP secondary volume.

```
sec_cluster::> snapmirror create -source-path src_system:src_7_vol  
-destination-path dst_vserver:dst_c_vol -type TDP -schedule  
15_minute_sched  
Operation succeeded: snapmirror create the relationship with  
destination dst_vserver:dst_c_vol.
```

- d. Use the `snapmirror resync` command to resynchronize the clustered Data ONTAP secondary volume.

For successful resynchronization, a common 7-Mode Snapshot copy must exist between the 7-Mode primary volume and the clustered Data ONTAP secondary volume.

```
sec_cluster::> snapmirror resync -destination-path  
dst_vserver:dst_c_vol
```

- If the target cluster is running Data ONTAP 8.3.2 or later, you must create the required igroups and map the LUNs manually.

- If the target cluster is running Data ONTAP 8.3.1 or earlier, you must map the secondary LUNs manually after completing the storage cutover of the primary volumes.
- You must delete the SVM peer relationship between the secondary 7-Mode system and the secondary SVM when all of the required volumes in the 7-Mode system are transitioned to the SVM.
- You must delete the SnapMirror relationship between the 7-Mode primary and the 7-Mode secondary systems.

Related information

[Recovering from a failed LUN transition](#)

[Configuring a TCP window size for SnapMirror relationships](#)

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