Transitioning AIX host data LUNs with file systems

ONTAP 7-Mode Transition

NetApp
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If you transition an AIX host data LUN with a file system from Data ONTAP operating in 7-Mode to clustered Data ONTAP using the 7-Mode Transition Tool (7MTT), you must perform specific steps before and after transition to remediate transition issues on the host.

Preparing to transition AIX host data LUNs with file systems

Before you transition AIX host data LUNs with file systems from Data ONTAP operating in 7-Mode to clustered Data ONTAP, you must gather information you need for the transition process.

1. On the 7-Mode controller, identify the name of the LUN to be transitioned:

   ```
   lun show
   ```

2. On the host, locate the SCSI device name for the LUN:

   ```
   sanlun lun show
   ```

   The SCSI device name is located in the device filename column.

3. List and record the physical volumes used by the volume group configured in the data LUNs to be transitioned:

   ```
   lsvg -p vg_name
   ```

4. List and record the logical volumes used by the volume group:

   ```
   lsvg -l vg_name
   ```

Testing transitioned LUNs on AIX hosts before the cutover phase of copy-based transitions

If you are using the 7-Mode Transition Tool (7MTT) 2.2 or later and Data ONTAP 8.3.2 or later to transition your AIX host LUNs, you can test your transitioned clustered Data ONTAP LUNs to verify that you can mount your MPIO device before the cutover phase. Your source host can continue to run I/O to your source 7-Mode LUNs during testing.

Your LUNs must be prepared for transition.

You should maintain hardware parity between the test host and the source host and you should perform the following steps on the test host.

Your clustered Data ONTAP LUNs are in read/write mode during testing. They convert to read-only mode when testing is complete and you are preparing for the cutover phase.

Steps

1. After the Baseline Data Copy is complete select **Test Mode** in the 7MTT user interface (UI).
2. In the 7MTT UI, click **Apply Configuration**.
3. On the test host, rescan your new clustered Data ONTAP LUNs:

   ```
   cfgmgr
   ```

4. Verify that your new clustered Data ONTAP LUNs are present:

   ```
   sanlun lun show
   ```

5. Verify the volume group status:

   ```
   lsvg vg_name
   ```

6. Mount each of the logical volumes:

   ```
   mount -o log/dev/loglv00 file_system_mount_point
   ```

7. Verify the mount points:

   ```
   df
   ```

8. Perform your testing as needed.
9. Shut down the test host:

   ```
   shutdown -h
   ```

10. In the 7MTT UI, click **Finish Testing**.

If your clustered Data ONTAP LUNs are to be remapped to your source host, you must prepare your source host for the cutover phase. If your clustered Data ONTAP LUNs are to remain mapped to your test host, no further steps are required on the test host.

Preparing for cutover phase when transitioning AIX host data LUNs with file systems

If you are transitioning an AIX host data LUN with a file system from Data ONTAP operating in 7-Mode to clustered Data ONTAP, you must perform certain steps before entering the cutover phase.

Fabric connectivity and zoning to the clustered Data ONTAP nodes must be established.

For copy-based transitions, perform these steps after completing the Storage Cutover operation in the 7-Mode Transition Tool. Copy-free transitions are not supported on AIX hosts.

Steps

1. Stop I/O on all of the mount points.
2. Shut down each application accessing the LUNs according to the recommendations of the application vendor.

3. Unmount all of the mount points:

   ```
   umount mount_point
   ```

4. Disable the volume group:

   ```
   varyoffvq vg_name
   ```

5. Export the volume group:

   ```
   exportvg vg_name
   ```

6. Verify the volume group status:

   ```
   lsvg
   ```

   The exported volume group should not be listed in the output.

7. If there are any stale entries, remove them:

   ```
   rmdev -Rdl hdisk#
   ```

Mounting AIX host data LUNs with file systems after transition

After transitioning AIX host data LUNs with file systems from Data ONTAP operating in 7-Mode to clustered Data ONTAP, you must mount the LUNs.

After LUN transition, the Logical Volume Manager (LVM) attributes, such as the logical volume name and volume group name, do not change. You continue to use the pretransition logical volume name and volume group name for post-transition configuration.

For copy-based transitions, perform these steps after completing the Storage Cutover operation in the 7-Mode Transition Tool. Copy-free transitions are not supported on AIX hosts.

Steps

1. Discover your new clustered Data ONTAP LUNs:

   ```
   cfgmgr
   ```

2. Verify that your clustered Data ONTAP LUNs have been discovered:

   ```
   sanlun lun show
   ```

   Your clustered Data ONTAP LUNs should be listed and the output in the mode column should be changed from 7 to C.

3. Import your volume group:

   ```
   importvg -y vg_name pv_name
   ```

   You can use any physical volume name in your volume group.

4. Verify that your volume group was imported:

   ```
   lsvg vg_name
   ```

5. Mount each device:

   ```
   mount -o log=/dev/loglv00 file_system mount_point
   ```

6. Verify the mount points:

   ```
   df
   ```