Transition of SAN boot LUNs on AIX hosts with FC/FCoE configurations

ONTAP 7-Mode Transition

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August 05, 2022
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Transition of SAN boot LUNs on AIX hosts with FC/FCoE configurations

If you transition a SAN boot LUN on an AIX host with an FC or FCoE configuration 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 SAN boot LUNs on AIX hosts with FC/FCoE configurations

Before you transition a SAN boot LUN on an AIX host with an FC/FCoE configuration, you must record the name of the 7-Mode LUN on which AIX is installed and the SCSI device name for that LUN.

1. From the console of your Data ONTAP operating in 7-Mode controller, identify the 7-Mode LUN name on which AIX 7.1 and AIX 6.1 operating system is installed:

   `lun show`

2. Obtain the SCSI device name for the LUN on the host:

   `sanlun lun show`

In the following example, the transition LUN is `lun_sanboot_fas3170_aix04` and the SCSI device for this LUN is `hdisk0`.

```
[04:02 AM root@822-aix03p1/]: sanlun lun show
controller[?mode]/
vserver[Cmode] lun-pathname
---------------------------------------------------------------------
fas3170-aix04  /vol/vol_fas3170_aix04_sanboot/lun_sanboot_fas3170_aix04
kit            /vol/kit/kit_0
kit            /vol/kit/kit_0
filename    adapter protocol    size        mode
-------------------------------------
hdisk0     fcs0       FCP      100g   7
hdisk1     fcs0       FCP      5g       C
hdisk2     fcs0       FCP      5g       C
```

Testing transitioned SAN boot 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 7-Mode Windows host LUNs, you can test your transitioned clustered Data ONTAP LUNs before the cutover phase to verify that they are functioning as desired.

Your 7-Mode LUNs must be ready 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, log in to the Hardware Management Console, and then boot your host in the **SMS** menu.
4. After the host boots, change the IP address and host name.
5. Verify that your clustered Data ONTAP LUNs are present:
   
   ```
   sanlun lun show
   ```
6. Perform your testing as needed.
7. Shut down the test host:
   
   ```
   shutdown -h
   ```
8. 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 the cutover phase when transitioning AIX hosts with FC/FCoE configurations.**

Before entering the cutover phase for AIX hosts with FC or FCoE configurations, you must perform specific steps.

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. Shut down your host:
   
   ```
   shutdown -h
   ```
Booting from SAN boot LUN on AIX hosts with FC/FCoE configurations after transition

After transitioning a SAN boot LUN on an AIX host with an FC or FCoE configuration, you must perform certain steps to boot your host from the SAN boot LUN.

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

1. Log in to the Hardware Management Console (HMC), and then boot your host in the SMS menu.
2. Select the host.
4. Click the Advanced tab.
5. Select SMS, and then click OK.
6. In the SMS Main Menu, enter 5 to select 5. Select Boot Options.
7. Enter 1 to select 1. Select Install/Boot Device.
8. Enter 5 to select 5. List all Devices.
9. Enter the device number of the ONTAP SAN boot LUN that you want to boot with.

In the following example, the desired LUN is option 5:
10. Enter 2 to select 2. **Normal Mode Boot.**

11. Enter 1 to exit the SMS menu.

12. Wait for your operating system to boot.

13. Display the LUN path name:

   ```bash
sanlun lun show
   ```

   The output in the mode column should have changed from 7 to C.
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