Determining whether VMFS volumes need to be remounted after transition

ONTAP 7-Mode Transition

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Table of Contents

Determining whether VMFS volumes need to be remounted after transition 1
Remounting VMFS volumes after transition using vSphere Client 1
Remounting VMFS volumes after transition using the ESXi CLI 2

Determining whether VMFS volumes need to be remounted after transition

After transitioning from Data ONTAP operating in 7-Mode to clustered Data ONTAP, you might have VMFS volumes that need to be remounted to bring VMFS datastores and VMs to their pretransition states.

- For copy-based transitions, perform these steps before initiating the Storage Cutover operation in the 7-Mode Transition Tool (7MTT).
- For copy-free transitions, perform these steps before initiating the Export & Halt 7-Mode Systems operation in the 7MTT.

Steps

1. Open the *Inventory Assessment Workbook* generated by the Inventory Collect Tool (ICT).
2. Click the **SAN Host Filesystems** tab.
3. Check the **Drive / Mount / Datastore Name** column for the filesystems and datastores mounted on the host before transition.
4. Make a note of the corresponding LUN naa IDs in the **SCSI Device ID/Device Name** column for the datastore.
5. Check whether the naa IDs noted for the datastore are listed in the 7MTT mapping file that was generated after the transition.
   - If none of the naa IDs are present in the 7MTT mapping file, the datastore and its underlying LUNs were not part of the 7MTT transition and no remediation is required.
   - If only part of the naa IDs are present in the 7MTT mapping file, your transition is incomplete and you cannot proceed.
   - If all naa IDs are present, you must remount your VMFS volumes.

Related information

Remounting VMFS volumes after transition using vSphere Client

Remounting VMFS volumes after transition using the ESXi CLI

What the Inventory Collect Tool is

Remounting VMFS volumes after transition using vSphere Client

After transition, you must remount your VMFS volumes to bring your datastores and virtual machines (VMs) to their pretransition states. If you are not familiar with the ESXi CLI or it is more convenient in your environment, you can use vSphere Client to remount your volumes.

These steps apply to volumes and spanned volumes.

Steps

1. Log in to the ESXi host or the vCenter Server managing the ESXi host.
2. Under **Hosts and Clusters**, select the ESXi host.
3. Navigate to **Configuration** > **Hardware** > **Storage**.
4. In the upper-right corner, click **Add storage**.
5. Select **Disk/LUN**.
6. Click **Next**.
7. In the list of LUNs, locate the **VMFS_label** column displaying the name of the datastore.
8. Select the LUN to complete the remount operation.

   If you are remounting a spanned VMFS volume, the first LUN in the span is marked “head”. You must select the “head” LUN to complete the remount operation.

9. Click **Next**.
10. In the Select VMFS Mount Options window, select **Keep the existing signature**.
11. Complete the wizard.
12. Repeat these steps for all of the LUNs displaying the datastore name in the VMFS_label column.

    Datastores are remounted and VMs are active.

Remounting VMFS volumes after transition using the ESXi CLI

After transition, you can use the ESXi CLI to remount your volumes and bring your datastores and VMs to their pretransition states.

The original 7-Mode LUN must be unmapped or offline.

These steps apply to volumes and spanned volumes.

Steps

1. Log in to the ESXi console using SSH.
2. List the newly added LUNs with existing VMFS signatures and VMFS labels:

   `# esxcfg-volume -l`

   The following is an example of the LUNs listed with VMFS signatures and VMFS labels.

```
# esxcfg-volume -l
VMFS UUID/label: 53578567-5b5c363e-21bb-001ec9d631cb/datastore1
Can mount: Yes
Can resignature: Yes
Extent name: naa.600a098054314c6c445d446f79716475:1 range: 0 - 409599
(MB)
```

3. Remount the VMFS volumes persistently with the same signature:
   - For regular volumes:
     esxcfg-volume -M|--persistent-mount *VMFS UUID|label*
   - For spanned volumes:
     # esxcfg-volume -M vmfs-span-ds

Related information

VMware KB: vSphere handling of LUNs detected as snapshot LUNs

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