Mount and unmount datastores

SnapCenter Plug-in for VMware vSphere

NetApp
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Mount and unmount datastores

Mount a backup

You can mount a traditional datastore from a backup if you want to access files in the backup. You can either mount the backup to the same ESXi host where the backup was created or to an alternate ESXi host that has the same type of VM and host configurations. You can mount a datastore multiple times on a host.

You cannot mount a vVol datastore.

Before you begin

- Ensure alternate ESXi host can connect to the storage

  If you want to mount to an alternate ESXi host, you must ensure that the alternate ESXi host can connect to the storage and has the following:

  - Same UID and GID as that of the original host
  - Same virtual appliance for SnapCenter Plug-in for VMware vSphere version as that of original host
- When using the iSCSI protocol, ensure that the initiators for the storage system are mapped to the ESXi host. When using the NVMe protocol, add controllers to map the required subsystem to the ESXi host.
- Clean up stale LUN/Namespace

  Because the ESXi host can only discover one unique LUN/Namespace per datastore, the operation will fail if it finds more than one. This can occur if you start a mount operation before a previous mount operation has finished, or if you manually clone LUN/Namespace, or if clones are not deleted from storage during an unmount operation. To avoid discovery of multiple clones, you should clean up all stale LUN/Namespace on the storage.

About this task

A mount operation might fail if the storage tier of the FabricPool where the datastore is located is unavailable.

Steps

1. In the VMware vSphere client shortcuts page select **Storage**.
2. Right-click a datastore and select **SnapCenter Plug-in for VMware vSphere** > **Mount Backup**.
3. On the **Mount Datastore** page, select a backup and a backup location (primary or secondary), and then click **Finish**.
4. Optional: To verify that the datastore is mounted, perform the following:
   a. Click **Menu** in the toolbar, and then select **Storage** from the drop-down list.
   b. The left navigator pane displays the datastore you mounted at the top of the list.

      If you perform an attach or mount operation on a SnapVault destination volume that is protected by SnapVault schedules and is running ONTAP 8.3, you might see an extra Snapshot listed in the attach or mount dialog screen. This occurs because the attach or mount operation clones the SnapVault destination volume and ONTAP updates the volume by creating a new Snapshot.

      To prevent new Snapshots from being created when you clone the volume, turn off the ONTAP schedule for the SnapVault volume. Previously existing Snapshots are not deleted.

Unmount a backup

You can unmount a backup when you no longer need to access the files in the datastore.

If a backup is listed as mounted in the VMware vSphere client GUI, but it is not listed in the unmount backup screen, then you need to use the REST API `/backup/{backup-Id}/cleanup` to clean up the out-of-bound datastores and then try the unmount procedure again.

If you attempt to mount a backup copy of an NFS datastore on a storage VM (SVM) with the root volume in a load-sharing mirror relationship and you might encounter the error `You may have reached the maximum number of NFS volumes configured in the vCenter. Check the vSphere Client for any error messages.` To prevent this problem, change the maximum volumes setting by navigating to **ESX** > **Manage** > **Settings** > **Advance System Settings** and changing the NFS.MaxVolumes value. Maximum value is 256.

Steps

1. In the VMware vSphere client shortcuts page select **Storage**.
2. In the left navigator pane, right-click a datastore, then select **SnapCenter Plug-in for VMware vSphere** in the drop-down list, and then select **Unmount** in the secondary drop-down list.

   Make sure that you select the correct datastore to unmount. Otherwise, you might cause an impact on production work.

3. In the **Unmount Cloned Datastore** dialog box, select a datastore, select the **Unmount the cloned datastore** checkbox, and then click **Unmount**.

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