Manage datastores

ONTAP tools for VMware vSphere 10

NetApp
November 12, 2025

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Manage datastores

Mount NFS and VMFS datastores

Mounting a datastore provides storage access to additional hosts. You can mount the datastore on the additional hosts after you add the hosts to your VMware environment.

When you add a new ESXi host using the Add an ESX Host to Your vSphere Cluster workflow, wait for the scheduled host discovery to complete before it shows up in ONTAP tools. Alternatively, you can manually run discovery from the NetApp ONTAP tools overview screen.

About this task

- Some right-click actions are disabled or unavailable depending on the vSphere client version and the type of datastore selected.
  - If you're using vSphere client 8.0 or later versions, some of the right-click options are hidden.
  - From vSphere 7.0U3 to vSphere 8.0 versions, even though the options appear, the action will be disabled.
- The mount datastore option is disabled when the host cluster is protected with uniform configurations.

Steps

1. From the vSphere Client home page, select **Hosts and Clusters**.
2. In the left navigation pane, select the data centers containing the hosts.
3. To mount NFS/VMFS datastores on host or host cluster, right-click and select **NetApp ONTAP tools** > **Mount Datastores**.
4. Select the datastores that you want to mount and select **Mount**.

What's next?

You can track the progress in the recent task panel.

Related topic

Add new VMware vSphere hosts

Unmount NFS and VMFS datastores

Unmount datastore action unmounts a NFS or VMFS datastore from ESXi hosts. Unmount datastore action is enabled for NFS and VMFS datastores that are discovered or managed by the ONTAP tools for VMware vSphere.

Steps

1. Log in to the vSphere client.
2. Right-click a NFS or VMFS datastore object and select **Unmount datastore**.

   A dialog box opens and lists the ESXi hosts that the datastore is mounted on. When the operation is performed on a protected datastore, a warning message is displayed on the screen.

3. Select one or more ESXi hosts to unmount the datastore.

You cannot unmount the datastore from all hosts. The user interface suggests that you use the delete datastore operation instead.

4. Select the **Unmount** button.

   If the datastore is part of a protected host cluster, a warning message is displayed.

> If the protected datastore is unmounted the exiting protection setting might result in partial protection. Refer to Modify protected host cluster to enable complete protection.

What's next?

You can track the progress in the recent tasks panel.

Mount a vVols datastore

You can mount a VMware Virtual Volumes (vVols) datastore to one or more additional hosts to provide storage access to additional hosts. You can unmount vVols datastore only through the APIs.

> When you add a new ESXi host using the Add an ESX Host to Your vSphere Cluster workflow, wait for the scheduled host discovery to complete before it shows up in ONTAP tools. Alternatively, you can manually run discovery from the NetApp ONTAP tools overview screen.

Steps

1. From the vSphere Client home page, select **Hosts and Clusters**.
2. In the navigation pane, select the data center that contains the datastore.
3. Right-click the datastore and select **NetApp ONTAP tools** > **Mount datastore**.
4. In the **Mount datastores on Hosts** dialog box, select the hosts on which you want to mount the datastore, and then select **Mount**.

You can track the progress in the recent task panel.

Related topic

Add new VMware vSphere hosts

Resize NFS and VMFS datastore

Resizing a datastore enables you to increase the storage for your virtual machine files. You can change the size of a datastore as your infrastructure requirements change.

About this task

You can only increase the size of an NFS and VMFS datastores. A FlexVol volume that is part of a NFS and VMFS datastores cannot shrink below the existing size but can grow by 120% maximum.

Steps

1. From the vSphere Client home page, select **Hosts and Clusters**.
2. In the navigation pane, select the data center that contains the datastore.

3. Right-click the NFS or VMFS datastore and select **NetApp ONTAP tools** > **Resize datastore**.
4. In the Resize dialog box, specify a new size for the datastore and select **OK**.

Expand vVols datastores

When you right-click on the datastore object in the vCenter object view, ONTAP tools for VMware vSphere supported actions are shown under the plug-in section. Specific actions are enabled depending on the type of datastore and the current user privileges.

Expand vVols datastore operation is not applicable for ASA r2 system-based vVols datastores.

Steps

1. From the vSphere Client home page, select **Hosts and Clusters**.
2. In the navigation pane, select the data center that contains the datastore.
3. Right-click the datastore and select **NetApp ONTAP tools** > **Add storage to datastore**.
4. In the **create or Select Volumes** window, you can either create new volumes or choose from the existing volumes. The user interface is self-explanatory. Follow the instructions as per your choice.
5. In the **Summary** window, review the selections and select **Expand**. You can track the progress in the recent tasks panel.

Shrink vVols datastore

Delete datastore action deletes the datastore when there are no vVols on the selected datastore.

Shrink vVols datastore operation is not supported for ASA r2 system-based vVols datastore.

Steps

1. From the vSphere Client home page, select **Hosts and Clusters**.
2. In the navigation pane, select the data center that contains the datastore.
3. Right-click on the vVol datastore and select **NetApp ONTAP tools** > **Remove storage from datastore**.
4. Select volumes which do not have vVols and select **Remove**.

   The option to select the volume on which the vVols is residing is disabled.

5. In the **Remove storage** pop-up, select **Delete volumes from ONTAP cluster** checkbox to delete the volumes from datastore and from ONTAP storage and select **Delete**.

Delete datastores

Remove storage from datastore action is supported on all ONTAP tools for VMware vSphere discovered or managed vVols datastores in the vCenter Server. This action allows the removal of volumes from the vVols datastores.

The remove option is disabled when there are vVols residing on a particular volume. In addition to removing

volumes from datastore, you can delete the selected volume on ONTAP storage.

Delete datastore task from ONTAP tools for VMware vSphere in the vCenter Server does the following:

- Unmounts the vVol container.
- Cleans up igroup. If igroup is not in use, removes iqn from igroup.
- Deletes Vvol container.
- Leaves the Flex volumes on the storage array.

Follow the steps below to delete NFS, VMFS, or vVOL datastore from ONTAP tools from the vCenter Server:

Steps

1. Log in to the vSphere client.
2. Right-click a host system or a host cluster or a data center and select **NetApp ONTAP tools** > **Delete datastore**.

   You cannot delete the datastores if there are virtual machines using that datastore. You need to move the virtual machines to a different datastore before deleting the datastore. You cannot select Volume delete checkbox if the datastore belongs to a protected host cluster.

   a. In the case of NFS or VMFS datastore a dialog box appears with the list of VMs that are using the datastore.
   b. If the VMFS datastore is created on ASA r2 systems and if it is part of the protection, you need to unprotect the datastore before deleting it.
   c. In the case of vVols datastores, delete datastore action deletes the datastore only when there are no vVols associated with it. The Delete datastore dialog box provides an option to delete volumes from ONTAP cluster.
   d. In case of ASA r2 systems based vVols datastores, the checkbox to delete the backing volumes is not applicable.
3. To delete the backing volumes on ONTAP storage, select **Delete volumes on ONTAP cluster**.

   You cannot delete the volume on ONTAP cluster for a VMFS datastore that is part of the protected host cluster.

ONTAP storage views for datastores

ONTAP tools for VMware vSphere shows the ONTAP storage side view of the datastores and their volumes in the configure tab.

Steps

1. From the vSphere client, navigate to the datastore.
2. Select the **Configure** tab in the right pane.
3. Select **NetApp ONTAP tools** > **ONTAP Storage**. Depending on the datastore type, the view changes. Refer to the table below for information:

Datastore type	Information available

NFS datastore	The **Storage details** page contains storage backends, aggregate, and volume information. The **NFS details** page contains data related to the NFS datastore.
VMFS datastores	The **Storage details** page contains storage backend, aggregate, volume, and storage availability zone (SAZ) details. The **Storage unit details** page contains details of the storage unit.
vVols datastores	Lists all the volumes. You can expand or remove storage from the ONTAP storage pane. This view is not supported for ASA r2 system-based vVols datastore.

Virtual machine storage view

The storage view shows the list of vVols that are created by the virtual machine.

This view is applicable for the VM which has at least one ONTAP tools for VMware vSphere managed vVols datastore related disk mounted on it.

Steps

1. From the vSphere Client navigate to the virtual machine.
2. Select the **Monitor** tab in the right pane.
3. Select **NetApp ONTAP tools** > **Storage**. The **Storage** details appear on the right pane. You can see the list of vVols that are present on the VM.

   You can use the 'Manage Columns' option to hide or show different columns.

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