



## **Manage datastores**

### **ONTAP tools for VMware vSphere 105**

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# Manage datastores

## Mount NFS and VMFS datastores in ONTAP tools

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.
- vSphere disables the mount datastore option 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 a host or a 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 in ONTAP tools

The Unmount datastore action removes an NFS or VMFS datastore from ESXi hosts. It is available for datastores discovered or managed by ONTAP tools for VMware vSphere.

### Steps

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

The vSphere client opens a dialog box and lists the ESXi hosts that mount the datastore. 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 in ONTAP tools

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**.

The recent task panel displays the progress.

#### Related topic

[Add new VMware vSphere hosts](#)

## Resize NFS and VMFS datastores in ONTAP tools

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 increase the size of NFS and VMFS datastores. A FlexVol volume in these datastores cannot shrink below its current size but can grow up to 120%.

#### 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, enter a new size for the datastore and select **OK**.

## Expand vVols datastores in ONTAP tools

When you right-click on the datastore object in the vCenter object view, the plug-in section shows the supported actions for ONTAP tools for VMware vSphere. 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. Follow the on-screen instructions to make your selection.
5. In the **Summary** window, review the selections and select **Expand**. You can track the progress in the recent tasks panel.

## Shrink a vVols datastore in ONTAP tools

This page explains how to remove volumes from a vVols datastore.

Use the remove storage from datastore action on any vVols datastore managed by ONTAP tools in vCenter Server.

You cannot remove storage from a volume if it contains vVols; the remove option will be disabled for such volumes. When removing volumes from the datastore, you also have the option to delete the selected volumes from ONTAP storage.



The shrink vVols datastore operation is not supported for vVols datastores based on ASA r2 systems.

### 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 that don't have vVols and select **Remove**.



The option to select the volume on which 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 in ONTAP tools

This page describes how to delete NFS, VMFS, or vVols datastores using ONTAP tools in the vCenter Server.

When you delete a datastore, the following actions are performed depending on the datastore type:

- The vVol container is unmounted.
- If the igroup is not in use, its initiators are removed from the igroup.
- The vVol container is deleted.
- Flex volumes are left on the storage array.

You can delete the datastore only if no vVols are present on the selected datastore.

## Steps

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



You cannot delete a datastore used by virtual machines. Move virtual machines to another datastore before deleting. You cannot delete the volume if it is part of a protected host cluster.

- a. In the case of an NFS or VMFS datastore, a dialog box appears with the list of VMs using the datastore.
  - b. If no virtual machines are associated with a VMFS datastore, you see a confirmation dialog. If host cluster protection is enabled and an AFD relationship exists, you can clean up secondary storage elements.
  - c. For protected VMFS datastores on ASA r2 systems, remove protection before deleting. Beginning with ONTAP 9.17.1 and ONTAP tools for VMware vSphere 10.5, you can delete a protected datastore. If it is the only datastore in the protection group, host cluster protection removes automatically.
  - d. For vVols datastores, you can delete the datastore only if there are no vVols present. The **Delete datastore** dialog box includes an option to remove volumes from the ONTAP cluster.
  - e. For vVols datastores on ASA r2 systems, you cannot delete the backing volumes from ONTAP using the **Delete datastore** option.
3. To delete the backing volumes on ONTAP storage, select **Delete volumes on ONTAP cluster**.



For VMFS datastores on unified ONTAP storage that are part of a protected host cluster, you cannot delete the volume from the ONTAP cluster.

When you delete an NFS, VMFS, or vVols datastore, parent igroups remain on the ONTAP system. Child igroups that are not mapped to any LUNs are deleted automatically. ONTAP tools perform a daily cleanup to remove unmapped default parent igroups. Delete the custom parent igroups manually in ONTAP. ONTAP tools cannot reuse stale parent igroups.

# ONTAP storage views for datastores in ONTAP tools

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, go to the datastore.
2. Select the **Configure** tab in the right pane.
3. Select **NetApp ONTAP tools > ONTAP Storage**. The view changes by datastore type. See the table below:

| Datastore type   | Information available                                                                                                                                                                                              |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NFS datastore    | <p>The <b>Storage details</b> page contains storage backends, aggregate, and volume information.</p> <p>The <b>NFS details</b> page contains data related to the NFS datastore.</p>                                |
| VMFS datastores  | <p>The <b>Storage details</b> page contains storage backend, aggregate, volume, and storage availability zone (SAZ) details.</p> <p>The <b>Storage unit details</b> page contains details of the storage unit.</p> |
| vVols datastores | <p>Lists all the volumes. You can expand or remove storage from the ONTAP storage pane.</p> <p>ONTAP tools do not support this view for ASA r2 system-based vVols datastores.</p>                                  |

## Virtual machine storage view in ONTAP tools

The storage view shows the list of vVols that the virtual machine creates.



This view applies to VMs with at least one disk from an ONTAP tools for VMware vSphere managed vVols datastore.

## Steps

1. From the vSphere Client go 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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