# Provision NAS storage for both Windows and Linux using both NFS and SMB/CIFS

ONTAP System Manager

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# Provision NAS storage for both Windows and Linux using both NFS and SMB/CIFS

Create volumes to provide storage for clients using either the NFS or SMB/CIFS protocol.

This procedure creates new volumes on an existing storage VM enabled for both NFS and SMB protocols.





Beginning in ONTAP 9.8, when you provision storage, QoS is enabled by default. You can disable QoS or choose a custom QoS policy during the provisioning process or at a later time.

#### Steps

1. In ONTAP System Manager, click **Storage** > **Volumes** and then click **Add**.

If you are running ONTAP 9.8 or later and you want to disable QoS or choose a custom QoS policy, click **More Options** and then select **Performance Service Level**.

2. Click **More Options** and select **Share via NFS**.

The default setting grants full access to all users. You can add more restrictive rules to the export policy later.

3. Select Share via SMB/CIFS.

The share is created with a default Access Control List (ACL) set to "Full Control" for the **Everyone** group. You can add restrictions to the ACL later.

- 4. On a Linux client, do the following to verify that the export is accessible.
  - a. Create and mount the volume using the network interface of the storage VM.
  - b. On the newly mounted volume, create a test file, write text to it, and then delete the file.
- 5. On a Windows client, do the following to verify that the share is accessible.
  - a. In Windows Explorer, map a drive to the share in the following format: \\\_SMB\_Server\_Name\_\_Share\_Name\_
  - b. On the newly created drive, create a test file, write text to it, and then delete the file.

After verifying access, you can restrict client access with the volume's export policy, restrict client

access with the share ACL, and set any desired ownership and permissions on the exported and shared volume.

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