



# 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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