

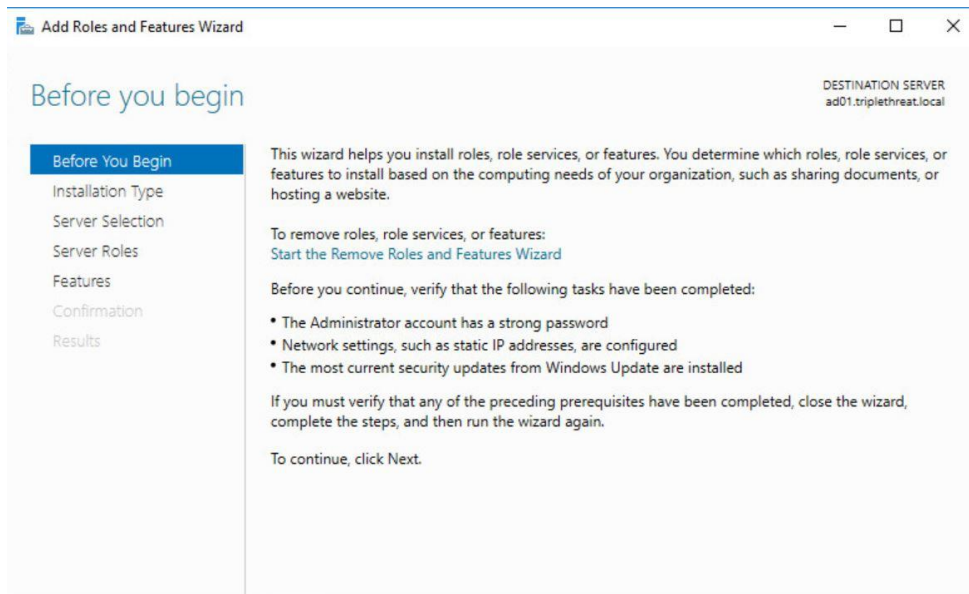
Documentation Mary Shiner Creating NFS file using Windows Server Manager

References:

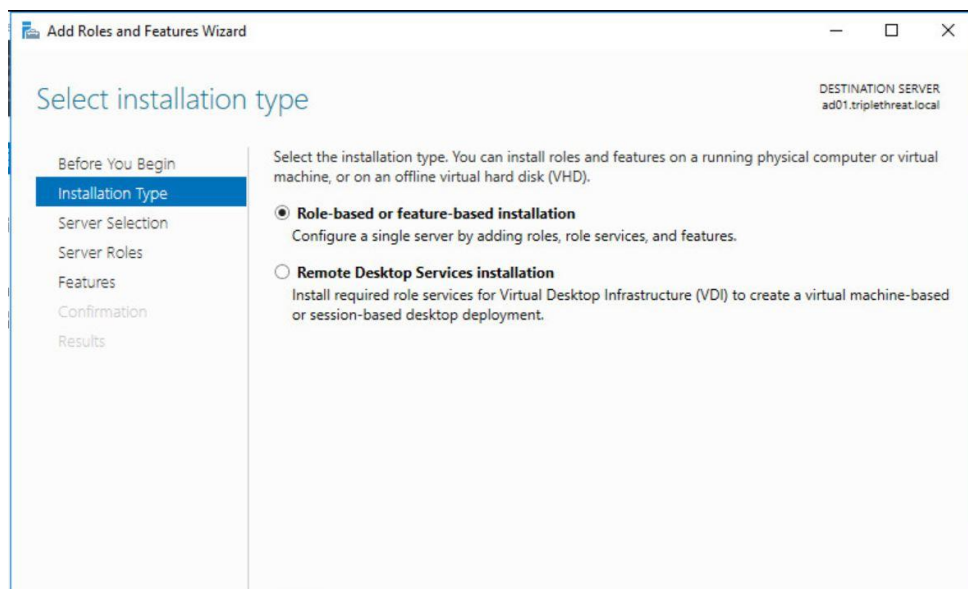
<https://docs.microsoft.com/en-us/windows-server/storage/nfs/deploy-nfs> configuring NFS and creating a file

Install Network File System on the server with Server Manager

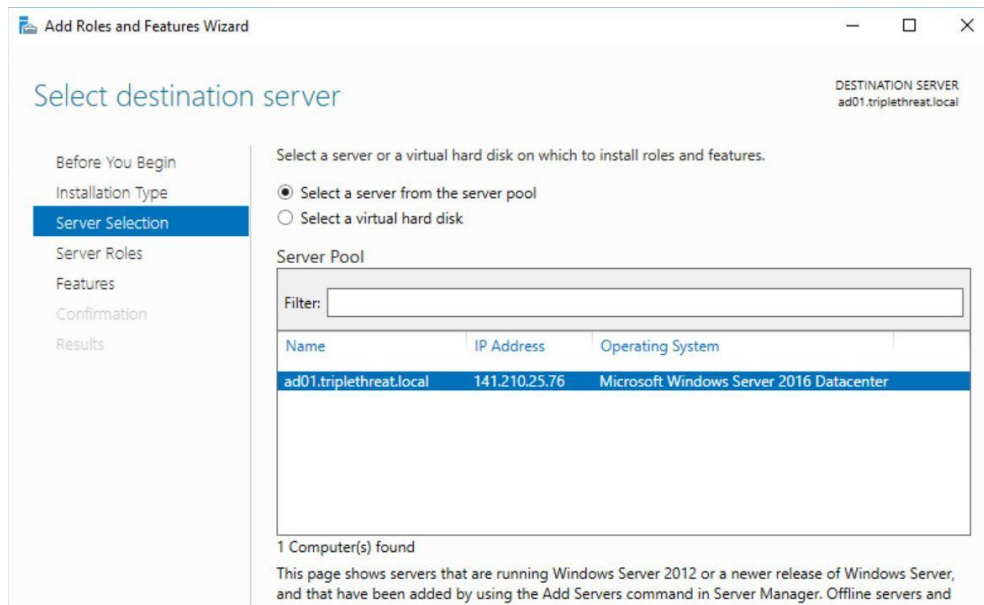
1. We are now going to install NFS via Add Roles and Features.



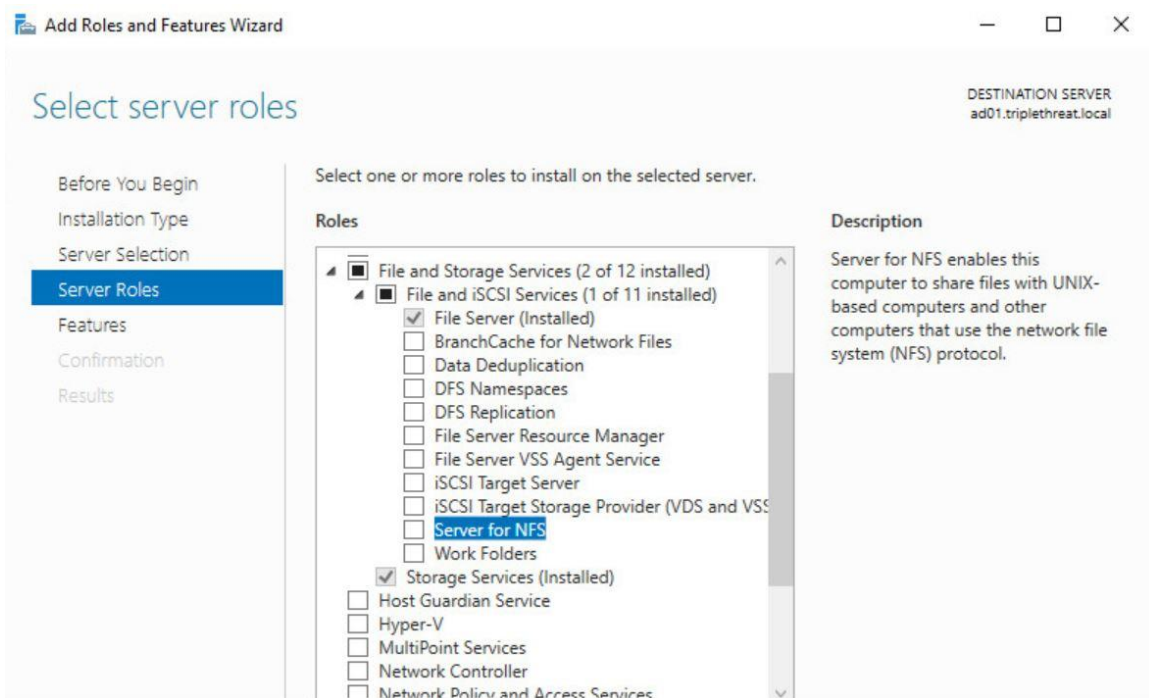
2. We choose Role-based installation.



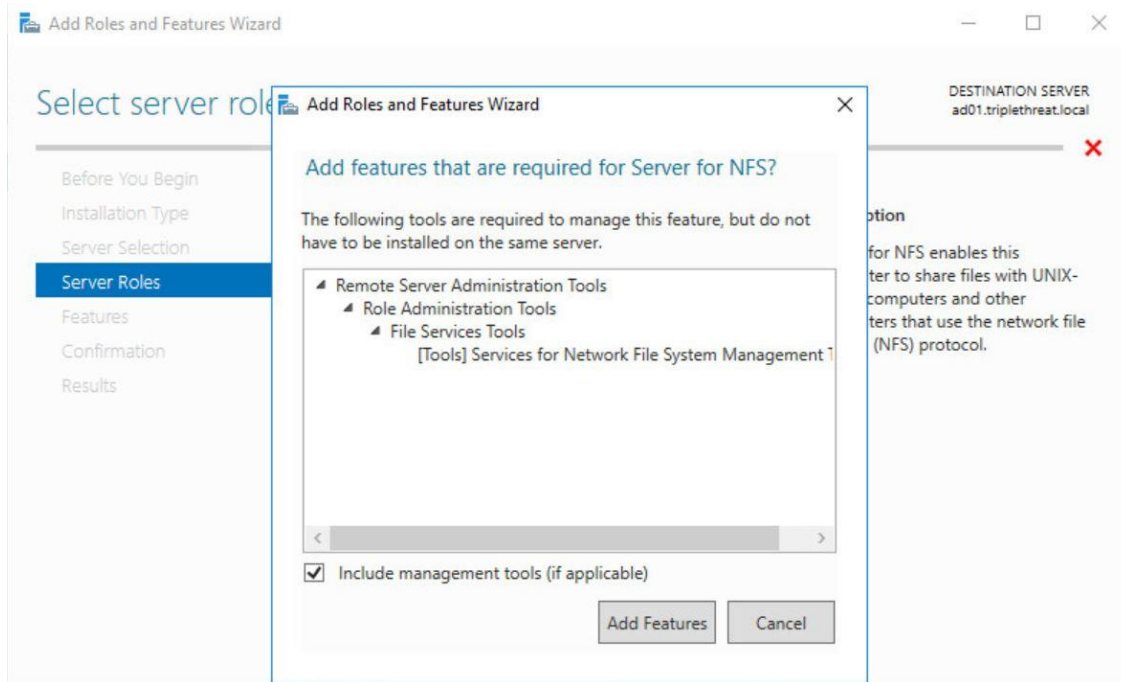
3. We select a server from the server pool.



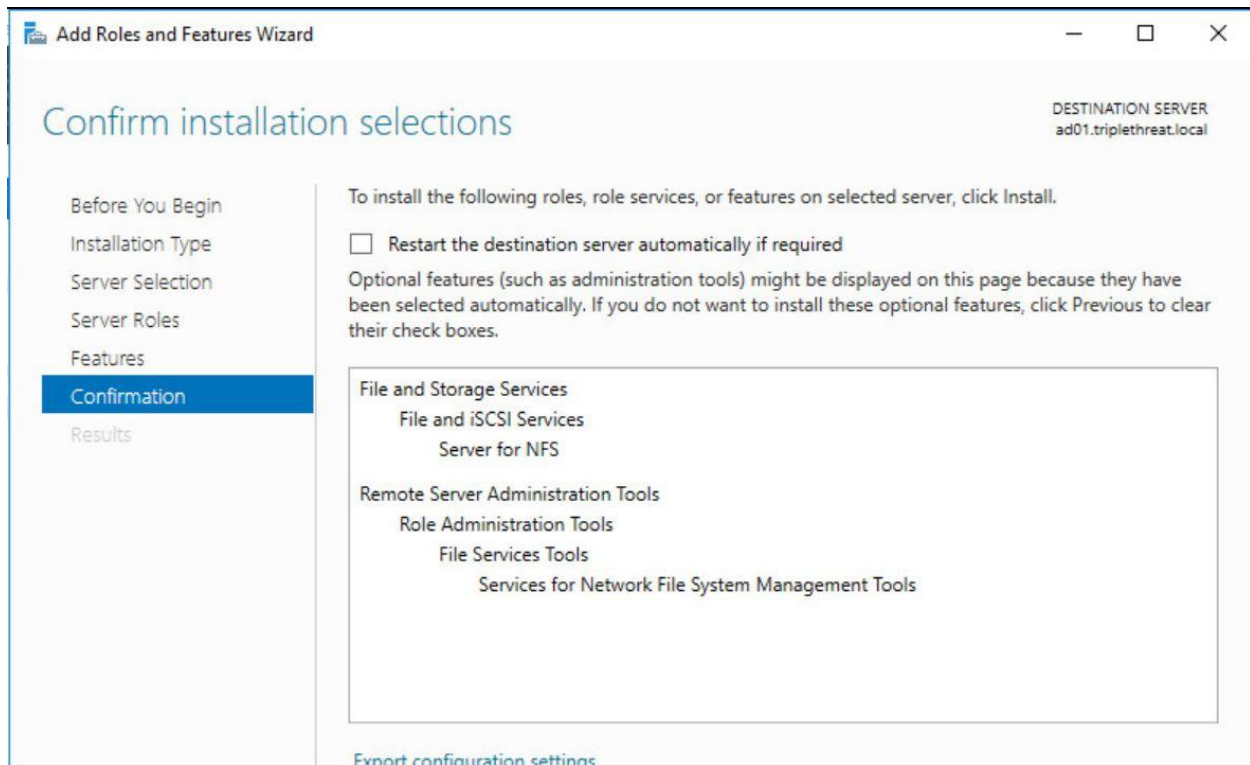
4. We select Server for NFS.



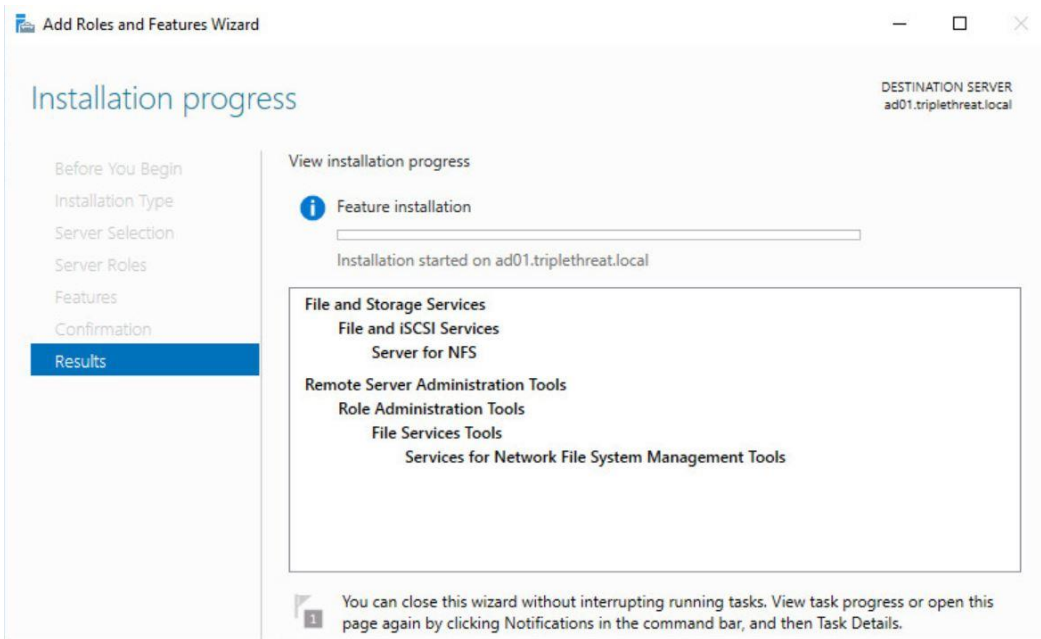
5. Selected Add Features to include selected NFS features.



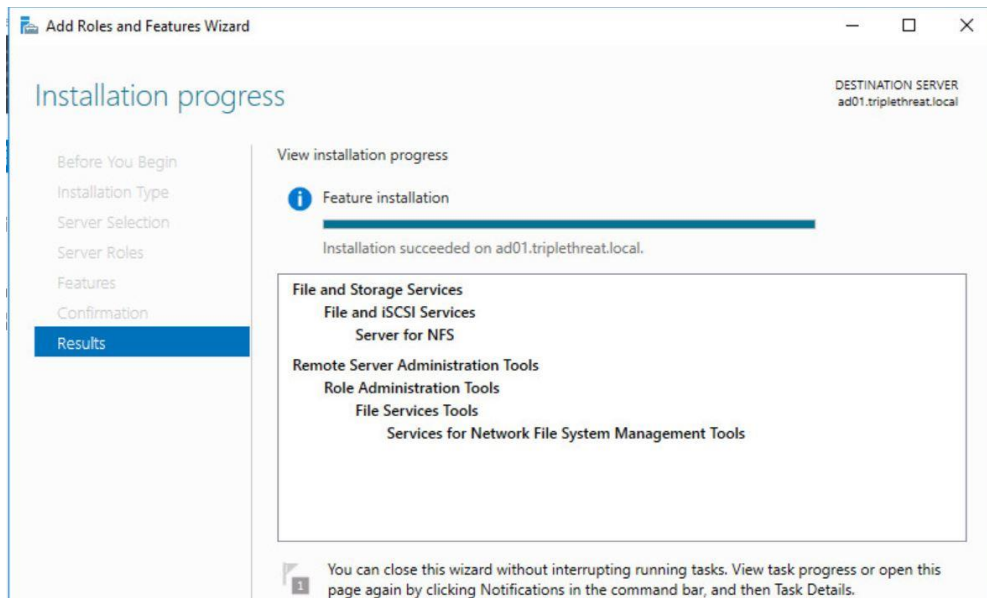
6. We then check our roles, role service and features and then install.



7. It is now installing.



8. Installation of NFS complete.



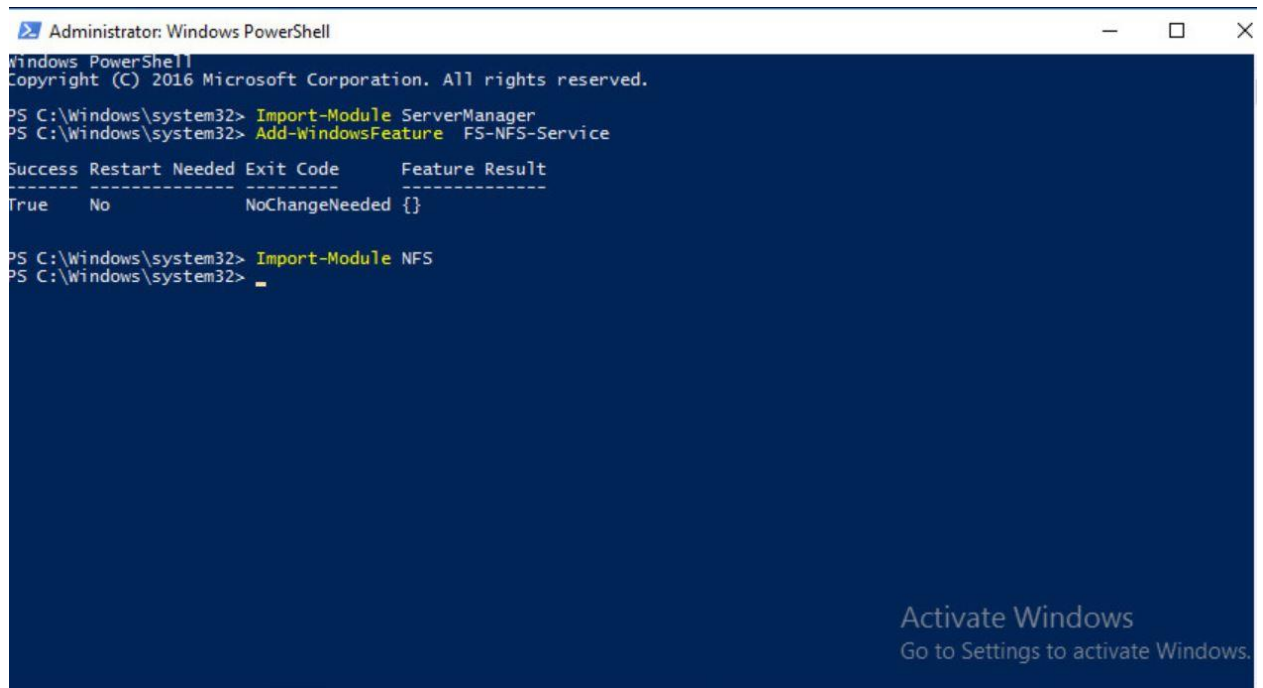
Install Network File System on the server with Windows PowerShell

1. Start Windows PowerShell as Administrator.
2. Run the following Windows PowerShell commands:

Import-Module ServerManager

Add-WindowsFeature FS-NFS-Service

Import-Module NFS



The screenshot shows a Windows PowerShell window titled "Administrator: Windows PowerShell". The window has a dark blue background with white text. The command prompt shows the following commands and output:

```
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.

PS C:\Windows\system32> Import-Module ServerManager
PS C:\Windows\system32> Add-WindowsFeature FS-NFS-Service

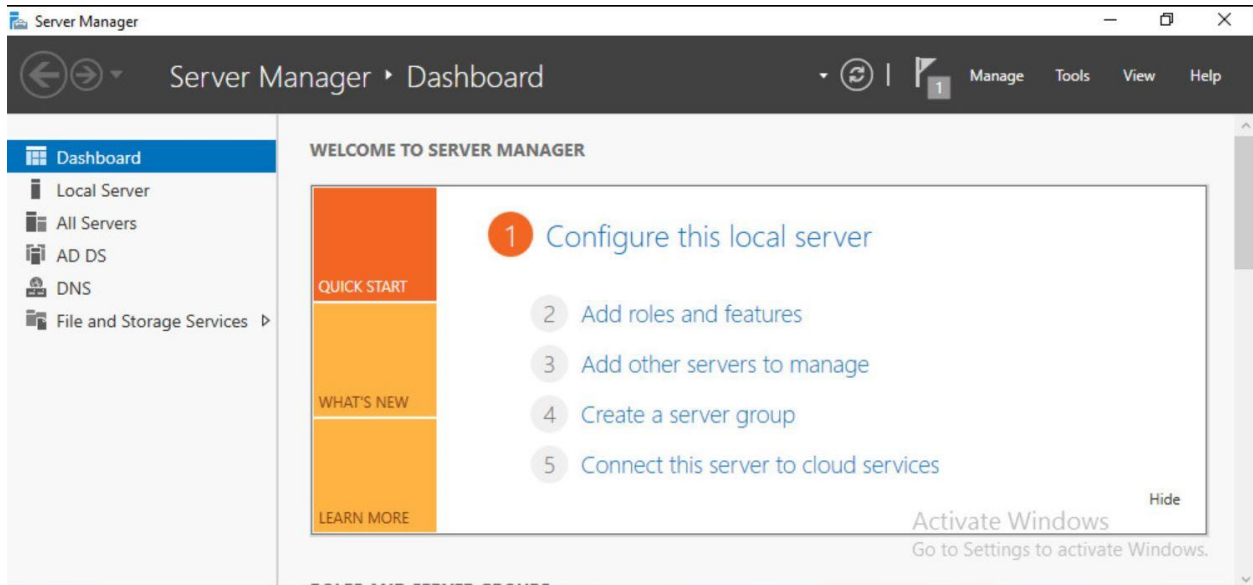
Success Restart Needed Exit Code      Feature Result
-----
True      No          NoChangeNeeded {}

PS C:\Windows\system32> Import-Module NFS
PS C:\Windows\system32> _
```

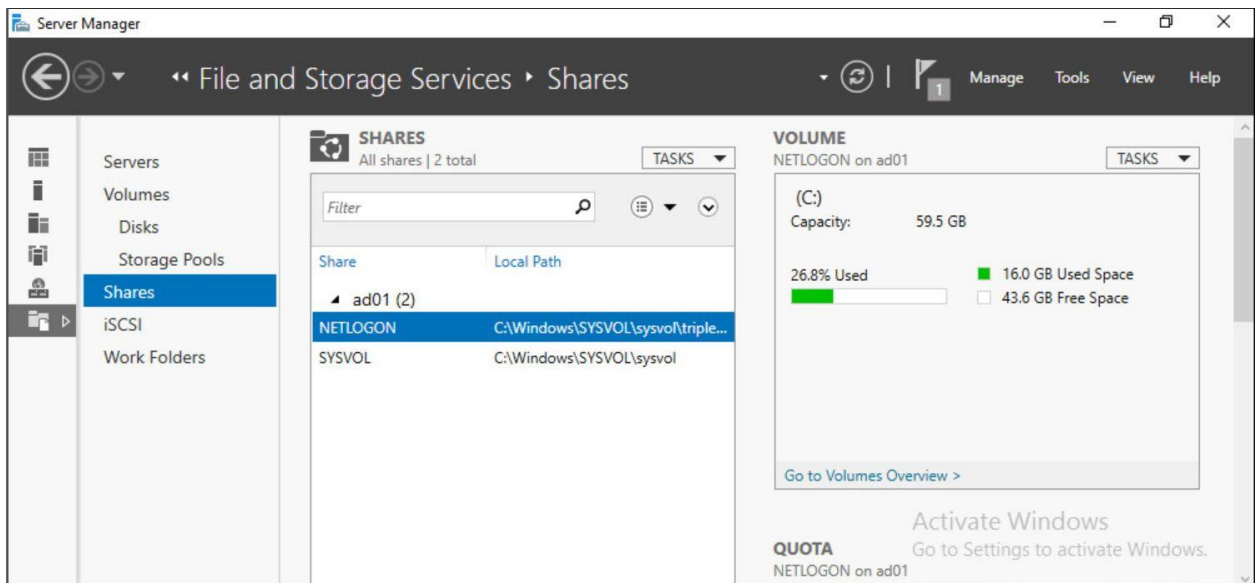
In the bottom right corner, there is a watermark that says "Activate Windows" and "Go to Settings to activate Windows."

Create an NFS file share with Server Manager

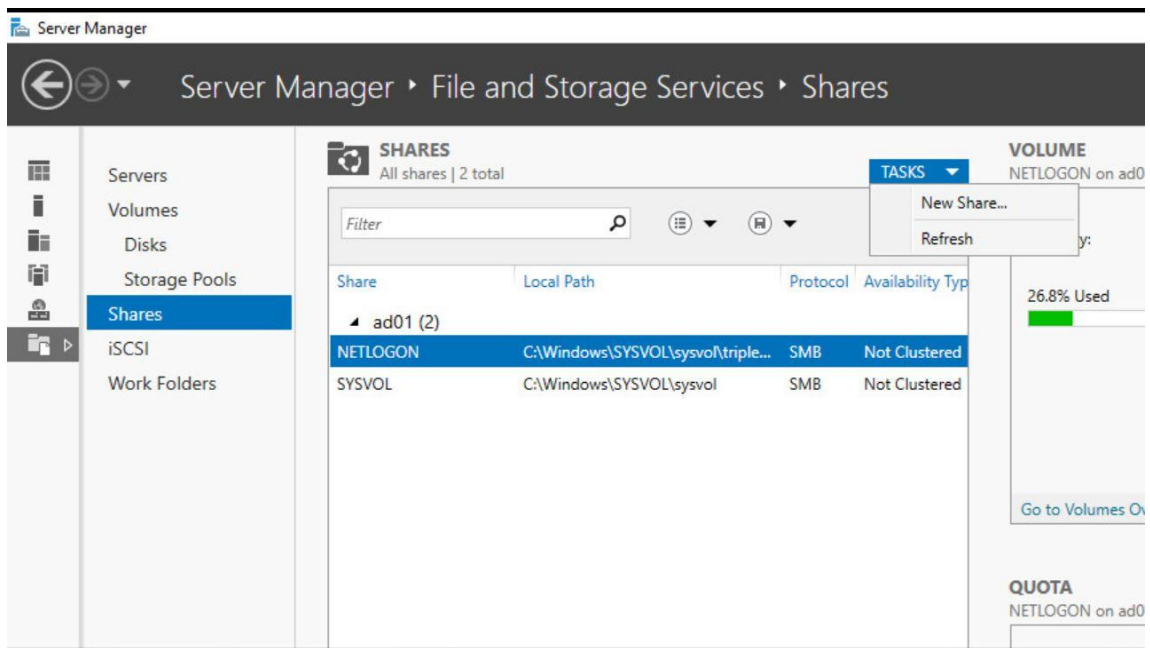
1. Server Manager will start automatically.



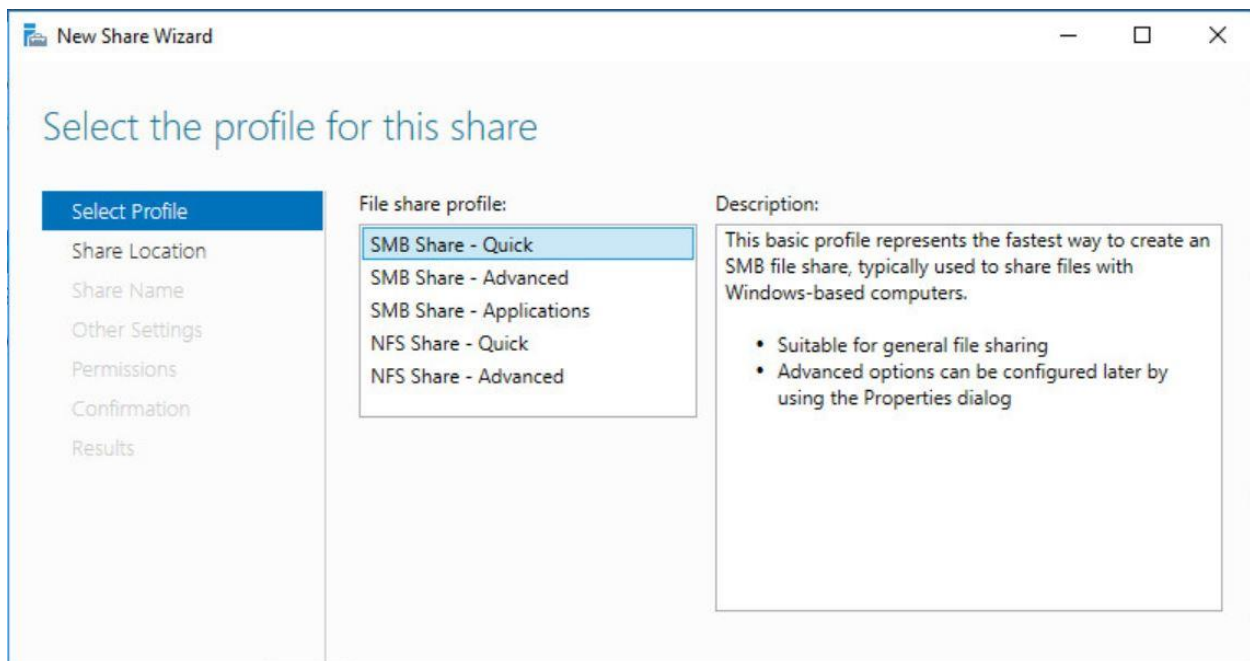
2. On the left, select File and Storage Services, and then select Shares.



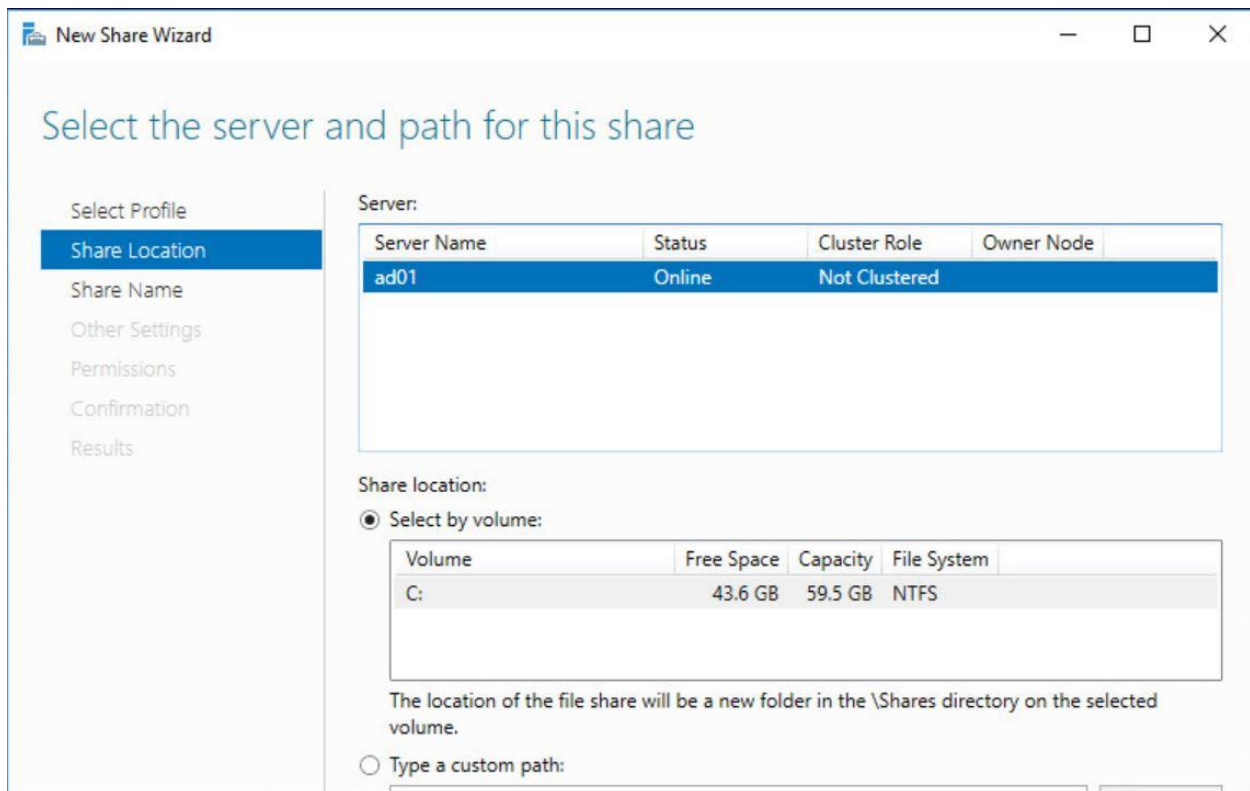
3. Select Tasks then New Share.



4. Select NFS Share – Quick.



5. Select a server and a volume, and click next.



New Share Wizard

Select the server and path for this share

Select Profile

Share Location

Share Name

Other Settings

Permissions

Confirmation

Results

Server:

Server Name	Status	Cluster Role	Owner Node
ad01	Online	Not Clustered	

Share location:

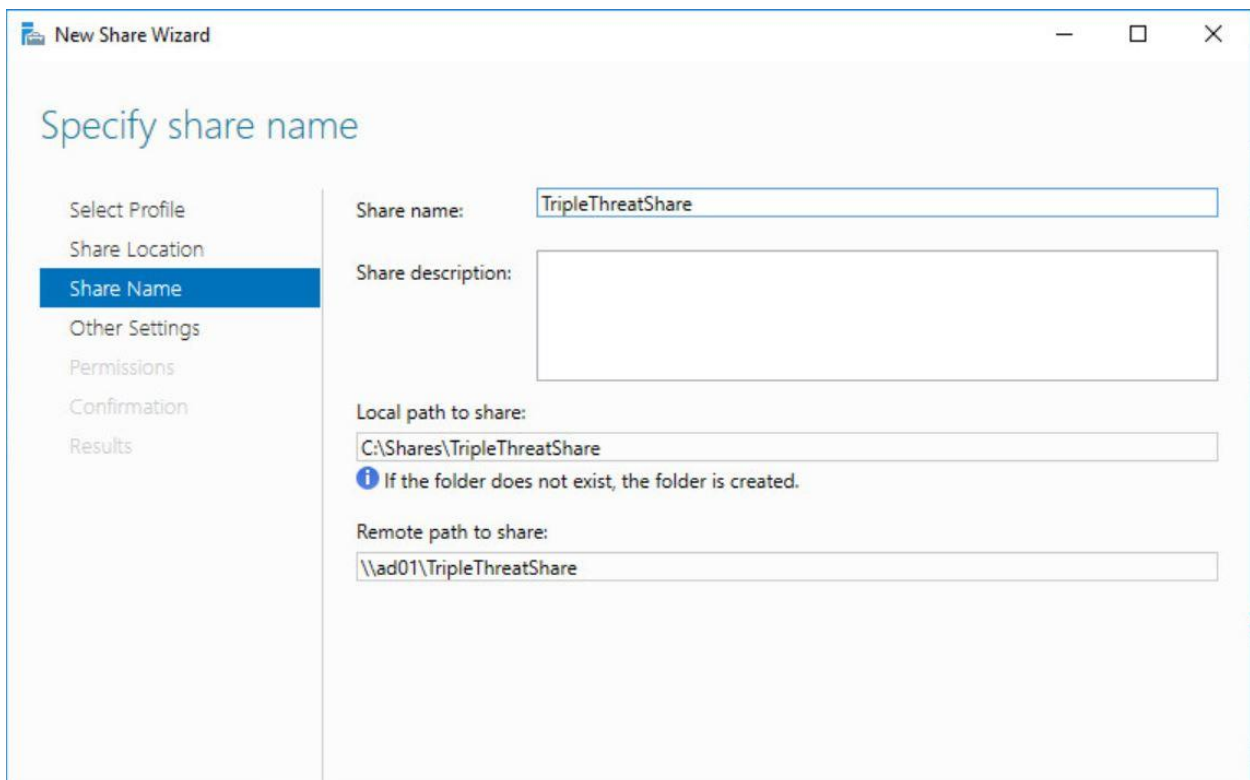
☒ Select by volume:

Volume	Free Space	Capacity	File System
C:	43.6 GB	59.5 GB	NTFS

The location of the file share will be a new folder in the \Shares directory on the selected volume.

☐ Type a custom path:

6. Create a name for the new share, and click next.



New Share Wizard

Specify share name

Select Profile

Share Location

Share Name

Other Settings

Permissions

Confirmation

Results

Share name: TripleThreatShare

Share description:

Local path to share: C:\Shares\TripleThreatShare

i If the folder does not exist, the folder is created.

Remote path to share: \\ad01\TripleThreatShare

7. Specify the authentication method you want to use for this share.

The screenshot shows the 'New Share Wizard' window with the title bar 'New Share Wizard'. The main heading is 'Configure share settings'. On the left, a sidebar lists the steps: 'Select Profile', 'Share Location', 'Share Name', 'Other Settings' (highlighted in blue), 'Permissions', 'Confirmation', and 'Results'. The main area contains three settings:

- ☐ Enable access-based enumeration
Access-based enumeration displays only the files and folders that a user has permissions to access. If a user does not have Read (or equivalent) permissions for a folder, Windows hides the folder from the user's view.
- ☒ Allow caching of share
Caching makes the contents of the share available to offline users. If the BranchCache for Network Files role service is installed, you can enable BranchCache on the share.
 - ☐ Enable BranchCache on the file share
BranchCache enables computers in a branch office to cache files downloaded from this share, and then allows the files to be securely available to other computers in the branch.
- ☐ Encrypt data access
When enabled, remote file access to this share will be encrypted. This secures the data against unauthorized access while the data is transferred to and from the share. If this box is checked and grayed out, an administrator has turned on encryption for the entire server.

8. Click Customize Permissions, and then specify the host, client group or netgroup you want to grant permission to the share.

The screenshot shows the 'New Share Wizard' window with the title bar 'New Share Wizard'. The main heading is 'Specify permissions to control access'. On the left, a sidebar lists the steps: 'Select Profile', 'Share Location', 'Share Name', 'Other Settings', 'Permissions' (highlighted in blue), 'Confirmation', and 'Results'. The main area contains the following text and table:

Permissions to access the files on a share are set using a combination of folder permissions, share permissions, and, optionally, a central access policy.

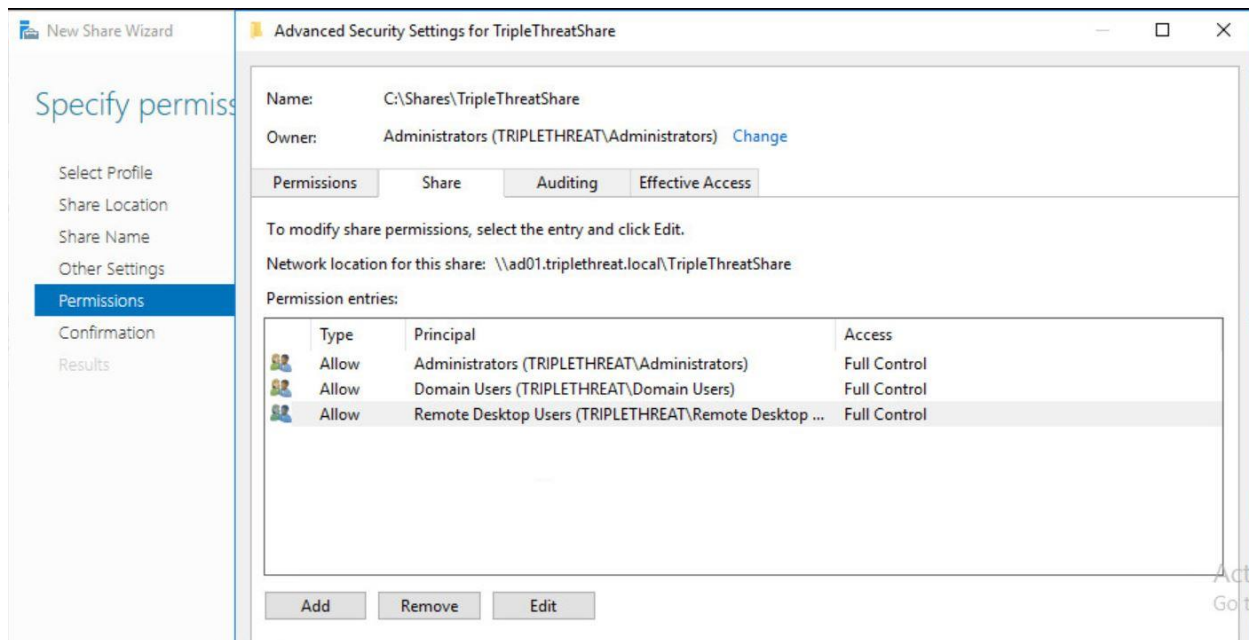
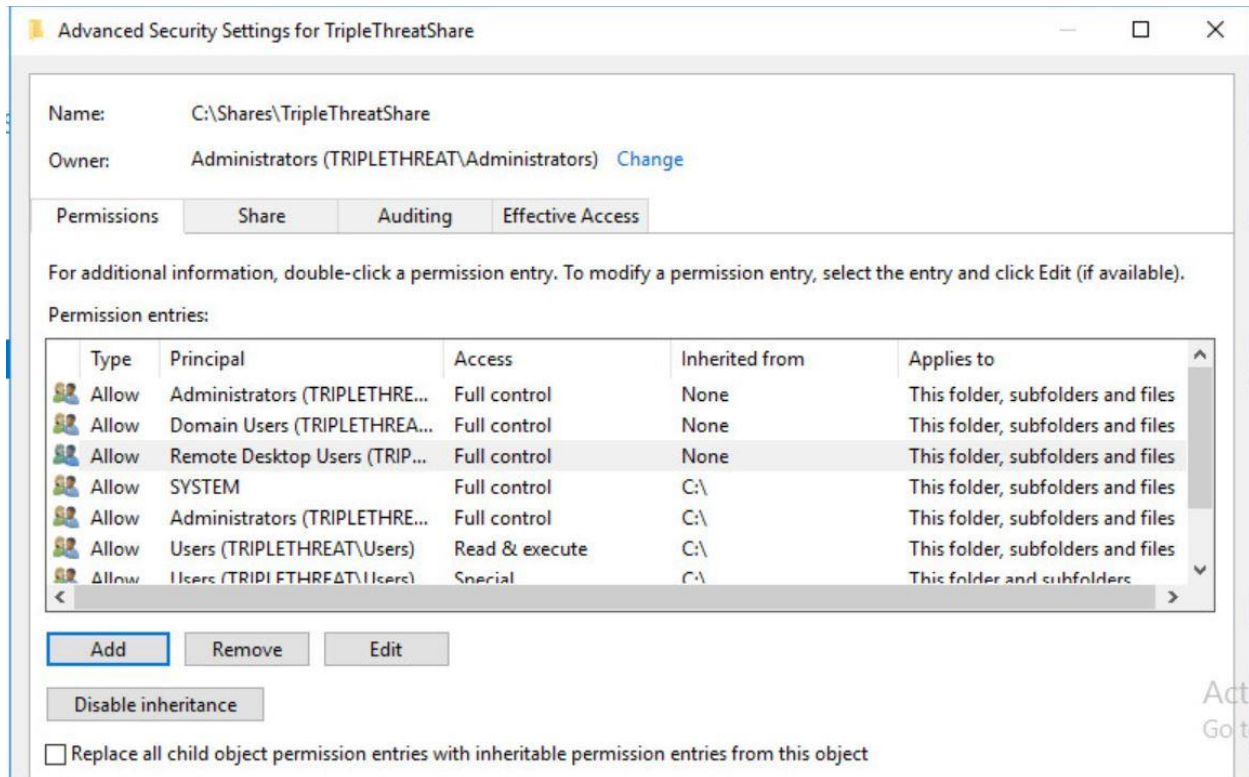
Share permissions: Everyone Full Control

Folder permissions:

Type	Principal	Access	Applies To
Allow	CREATOR OWNER	Full Control	Subfolders and files only
Allow	BUILTIN\Users	Special	This folder and subfolders
Allow	BUILTIN\Users	Read & execu...	This folder, subfolders, and files
Allow	BUILTIN\Administrators	Full Control	This folder, subfolders, and files
Allow	NT AUTHORITY\SYSTEM	Full Control	This folder, subfolders, and files

Below the table is a button labeled 'Customize permissions...'.

9. In **Permissions**, configure the type of access control you want the users to have, and select **OK**.



Advanced Security Settings for TripleThreatShare

Name: C:\Shares\TripleThreatShare

Owner: Administrators (TRIPLETHREAT\Administrators) [Change](#)

Permissions

Share

Auditing

Effective Access

For additional information, double-click an audit entry. To modify an audit entry, select the entry and click Edit (if available).

Auditing entries:

Type	Principal	Access	Inherited from	Applies to
Succ...	Administrators (TRIPLETHREA...	Full control	None	This folder, subfolders and files
Succ...	Domain Users (TRIPLETHREA...	Full control	None	This folder, subfolders and files
Succ...	Remote Desktop Users (TRIPL...	Full control	None	This folder, subfolders and files

Add

Remove

Edit

Disable inheritance

☐ Replace all child object auditing entries with inheritable auditing entries from this object

Advanced Security Settings for TripleThreatShare

Name: C:\Shares\TripleThreatShare

Owner: Administrators (TRIPLETHREAT\Administrators) [Change](#)

Permissions

Share

Auditing

Effective Access

Effective Access allows you to view the effective permissions for a user, group, or device account. If the account is a member of a domain, you can also evaluate the impact of potential additions to the security token for the account. When you evaluate the impact of adding a group, any group that the intended group is a member of must be added separately.

User/ Group: [Select a user](#)

Include group membership

Click Add items

Add items

Device: [Select a device](#)

Include group membership

Click Add items

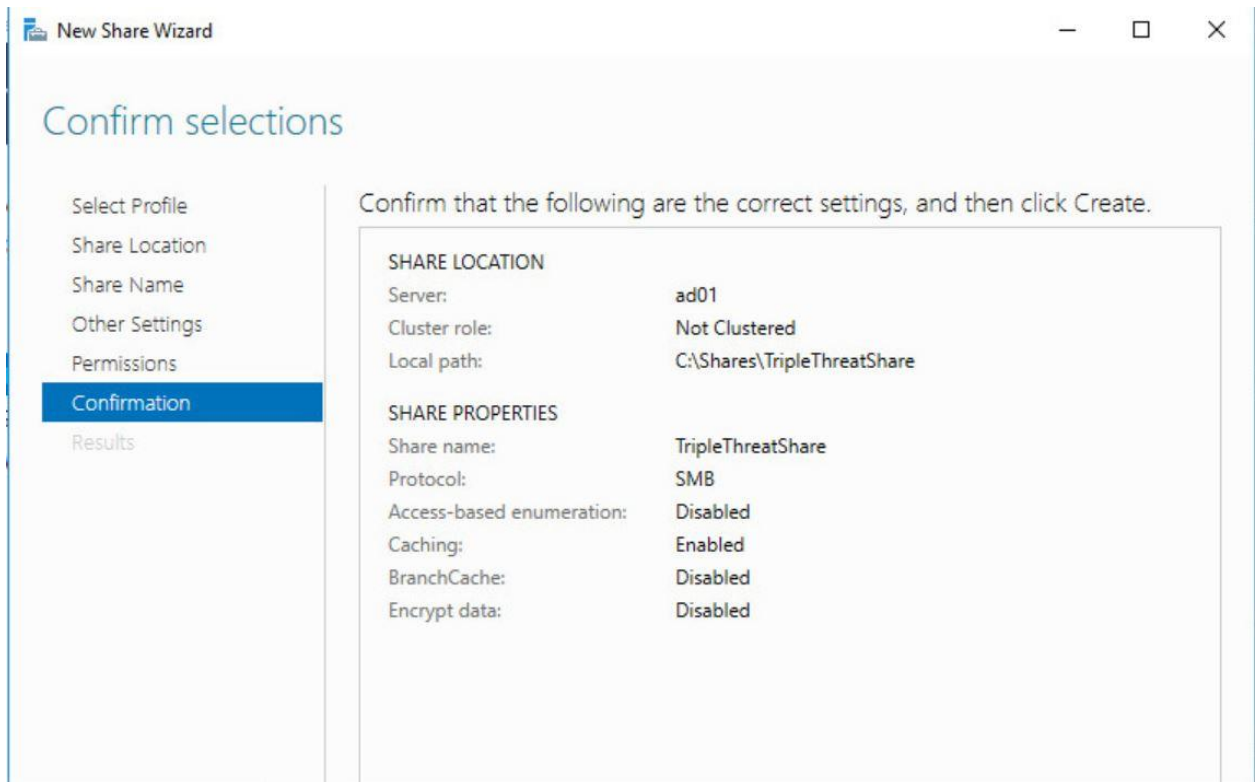
Add items

Include a user claim

Include a device claim

View effective access

10. Review configuration, and select Create.



The image shows the 'New Share Wizard' window, specifically the 'Confirm selections' step. The window has a title bar with the text 'New Share Wizard' and standard Windows window controls (minimize, maximize, close). On the left side, there is a vertical navigation pane with the following items: 'Select Profile', 'Share Location', 'Share Name', 'Other Settings', 'Permissions', 'Confirmation' (which is highlighted with a blue background), and 'Results'. The main area of the window is titled 'Confirm selections' in a large, light blue font. Below this title, there is a instruction: 'Confirm that the following are the correct settings, and then click Create.' The settings are organized into two sections: 'SHARE LOCATION' and 'SHARE PROPERTIES'. The 'SHARE LOCATION' section includes 'Server: ad01', 'Cluster role: Not Clustered', and 'Local path: C:\Shares\TripleThreatShare'. The 'SHARE PROPERTIES' section includes 'Share name: TripleThreatShare', 'Protocol: SMB', 'Access-based enumeration: Disabled', 'Caching: Enabled', 'BranchCache: Disabled', and 'Encrypt data: Disabled'.

SHARE LOCATION	
Server:	ad01
Cluster role:	Not Clustered
Local path:	C:\Shares\TripleThreatShare

SHARE PROPERTIES	
Share name:	TripleThreatShare
Protocol:	SMB
Access-based enumeration:	Disabled
Caching:	Enabled
BranchCache:	Disabled
Encrypt data:	Disabled

11. The share was created.

