



Windows PowerShell Get-Help on Cmdlet 'New-SmbShare'

PS:\>Get-HELP New-SmbShare -Full

NAME

New-SmbShare

SYNOPSIS

Creates an SMB share.

SYNTAX

```
New-SmbShare [-Name] <String> [-Path] <String> [[-ScopeName] <String>] [-AsJob] [-CTimeout <UInt32>]
[-CachingMode {None | Manual | Documents | Programs |
BranchCache | Unknown}] [-CTimeout <UInt32>] [-ChangeAccess <String[]>] [-CimSession <CimSession[]>]
[-CompressData <Boolean>] [-ConcurrentUserLimit <UInt32>]
[-ContinuouslyAvailable <Boolean>] [-Description <String>] [-EncryptData <Boolean>] [-FolderEnumerationMode
{AccessBased | Unrestricted}] [-FullAccess <String[]>]
[-LeasingMode <LeasingMode>] [-NoAccess <String[]>] [-ReadAccess <String[]>] [-SecurityDescriptor <String>]
[-Temporary] [-ThrottleLimit <Int32>] [-Confirm] [-WhatIf]
[<CommonParameters>]
```

DESCRIPTION

The `New-SmbShare` cmdlet exposes a file system folder to remote clients as a Server Message Block (SMB) share.

To delete a share that was created by this cmdlet, use the `Remove-SmbShare` cmdlet.

> [!NOTE] > The WhatIf parameter does not work with this cmdlet.

PARAMETERS

`-AsJob [<SwitchParameter>]`

Runs the cmdlet as a background job. Use this parameter to run commands that take a long time to complete.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

`-CTimeout <UInt32>`

Specifies the continuous availability time-out for the share.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

`-CachingMode <CachingMode>`

Specifies the caching mode of the offline files for the SMB share. There are five caching modes:

- None. Prevents users from storing documents and programs offline. - Manual. Allows users to identify the documents and programs they want to store offline. -

Programs. Automatically stores documents and programs offline. - Documents. Automatically stores documents offline.

- BranchCache. Enables BranchCache and manual

caching of documents on the shared folder.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

-CATimeout <UInt32>

Specifies the continuous availability time-out for the share.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

-ChangeAccess <String[]>

Specifies which users are granted modify permission to access the share. Multiple users can be specified by using a comma-separated list. Each entry in the comma-separated list must be contained within single or double quotes, for example `'CONTOSO\Finance Users','CONTOSO\HR Users'`.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

-CimSession <CimSession[]>

Runs the cmdlet in a remote session or on a remote computer. Enter a computer name or a session object, such as the output of a `New-CimSession`

(<https://go.microsoft.com/fwlink/p/?LinkId=227966>)cmdlet. The default is the current session on the local computer.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

-CompressData <Boolean>

Indicates that SMB compression is requested for all client connections that support it.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

-ConcurrentUserLimit <UInt32>

Specifies the maximum number of concurrently connected users that the new SMB share may accommodate. If this parameter is set to zero (0), then the number of users is unlimited. The default value is zero (0).

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

-ContinuouslyAvailable <Boolean>

Indicates that the share is continuously available.

Required?	false
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Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-Description <String>

Specifies an optional description of the SMB share. A description of the share is displayed by running the ``Get-SmbShare`` cmdlet. The description may not contain more than 256 characters. The default value is no description or an empty description.

Required? false
Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-EncryptData <Boolean>

Indicates that the share is encrypted.

Required? false
Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-FolderEnumerationMode <FolderEnumerationMode>

Specifies which files and folders in the SMB share are visible to users. The acceptable values for this parameter are:

- ``AccessBased``. SMB doesn't display the files and folders for a share to a user unless that user has rights to access the files and folders. By default, access-based enumeration is disabled for new SMB shares. - ``Unrestricted``. SMB displays files and folders to a user even when the user doesn't have permission to access the items.

The default value is `Unrestricted`.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

-FullAccess <String[]>

Specifies which accounts are granted full permission to access the share. Use a comma-separated list to specify multiple accounts. Each entry in the

comma-separated list must be contained within single or double quotes, for example ``CONTOSO\Finance Users`,`CONTOSO\HR Users`.

An account may not be specified more than once in the FullAccess , ChangeAccess , or ReadAccess parameter lists, but may be specified once in the FullAccess ,

ChangeAccess , or ReadAccess parameter list and once in the NoAccess parameter list.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

-LeasingMode <LeasingMode>

Specifies SMB leasing and oplock behaviors for application compatibility. The acceptable values for this parameter are:

- `Full:` Use default lease and oplock behaviors from SMB3.

- `Shared:` Grant read-caching lease but not write or handle-caching.

- `None:` No oplocks or leases, behave like SMB1 (not recommended).

Required? false
Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-Name <String>

Specifies a name for the SMB share. The names `pipe` and `mailslot` are reserved for use by the computer. Share names can be up to a maximum of 80 characters

long. The SMB share name can use any character allowed by Windows for files and directories. To learn more about naming conventions for files read the Naming

Files, Paths, and Namespaces (</windows/win32/fileio/naming-a-file>)articles.

Required? true
Position? 1
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-NoAccess <String[]>

Specifies which accounts are denied access to the SMB share. Multiple accounts can be specified by supplying a comma-separated list. Each entry in the

comma-separated list must be contained within single or double quotes, for example `CONTOSO\Finance Users`,`CONTOSO\HR Users`.

Required? false
Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-Path <String>

Specifies the path of the location of the folder to share. The path must be fully qualified. Relative paths or paths that contain wildcard characters aren't permitted.

Required? true
Position? 2
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-ReadAccess <String[]>

Specifies which users are granted read permission to access the share. Multiple users can be specified by supplying a comma-separated list. Each entry in the comma-separated list must be contained within single or double quotes, for example ``'CONTOSO\Finance Users','CONTOSO\HR Users'``.

Required? false
Position? named
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-ScopeName <String>

Specifies the scope name of the share. For use with Windows Server failover cluster file server resources.

Required? false
Position? 3
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-SecurityDescriptor <String>

Specifies the security descriptor for the SMB share in string format.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	True (ByPropertyName)
Accept wildcard characters?	false

-Temporary [<SwitchParameter>]

Specifies the new SMB share is temporary and will not persist beyond the next restart of the computer. By default, new SMB shares aren't temporary.

Required?	false
Position?	named
Default value	False
Accept pipeline input?	False
Accept wildcard characters?	false

-ThrottleLimit <Int32>

Specifies the maximum number of concurrent operations that can be established to run the cmdlet. If this parameter is omitted or a value of `0` is entered, then

Windows PowerShell calculates an optimum throttle limit for the cmdlet based on the number of CIM cmdlets that are running on the computer. The throttle limit

applies only to the current cmdlet, not to the session or to the computer.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

-Confirm [<SwitchParameter>]

Prompts you for confirmation before running the cmdlet.

Required?	false
Position?	named
Default value	False
Accept pipeline input?	False
Accept wildcard characters?	false

-WhatIf [<SwitchParameter>]

Shows what would happen if the cmdlet runs. The cmdlet isn't run.

> [!NOTE] > The WhatIf switch doesn't work with this cmdlet.

Required?	false
Position?	named
Default value	False
Accept pipeline input?	False
Accept wildcard characters?	false

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, see about_CommonParameters (<https://go.microsoft.com/fwlink/?LinkID=113216>).

INPUTS

None

OUTPUTS

Microsoft.Management.Infrastructure.CimInstance#ROOT/Microsoft/Windows/SMB/MSFT_SmbShare

The Microsoft.Management.Infrastructure.CimInstance object is a wrapper class that displays Windows Management Instrumentation (WMI) objects. The path after the

pound sign (#) provides the namespace and class name for the underlying WMI object. This cmdlet returns a

MSFT_SmbShare object that represents the SMB share.

NOTES

----- Example 1: Create an SMB share -----

```
$Parameters = @{  
    Name = 'Public'  
    Path = 'D:\Public'  
    FullAccess = 'Contoso\Administrator', 'Contoso\Contoso-HV1$'  
}  
New-SmbShare @Parameters
```

This command creates an SMB share named `VMSFiles` and grants Full Access permissions to `Contoso\Administrator`, and `Contoso\Contoso-HV1\$`.

This example uses splatting to pass parameter values from the `\$Parameters` variable to the command. Learn more about Splatting

(/powershell/module/microsoft.powershell.core/about/about_splatting).

----- Example 2: Create an encrypted SMB share -----

```
New-SmbShare -Name "Data" -Path "J:\Data" -EncryptData $True
```

This command creates an encrypted SMB share.

--- Example 3: Create an SMB share with Multiple Permissions ---

```
$Parameters = @{  
    Name = 'VMSFiles'  
    Path = 'C:\ClusterStorage\Volume1\VMFiles'
```

```
ChangeAccess = 'CONTOSO\Finance Users','CONTOSO\HR Users'
FullAccess = 'Administrators'
}
New-SmbShare @Parameters
```

This command creates an SMB share named `VMSFiles` and grants Change permissions to the domain groups `CONTOSO\Finance Users` and `CONTOSO\HR Users`. Full Access permissions to the builtin `Administrators` group.

This example uses splatting to pass parameter values from the `\$Parameters` variable to the command. Learn more about Splatting ([/powershell/module/microsoft.powershell.core/about/about_splatting](https://powershell/module/microsoft.powershell.core/about/about_splatting)).

RELATED LINKS

Online

Version:

https://learn.microsoft.com/powershell/module/smbshare/new-smbshare?view=windowsserver2022-ps&wt.mc_id=ps-gethelp

Get-SmbShare

Remove-SmbShare

Set-SmbShare