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Creates an SMB mapping.

Syntax

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```
New-SmbMapping
[[-LocalPath] <String>]
[[-RemotePath] <String>]
[-UserName <String>]
[-Password <String>]
[-Persistent <Boolean>]
[-SaveCredentials]
[-HomeFolder]
[-RequireIntegrity <Boolean>]
[-RequirePrivacy <Boolean>]
[-UseWriteThrough <Boolean>]
[-TransportType <TransportType>]
[-SkipCertificateCheck]
[-CompressNetworkTraffic <Boolean>]
[-GlobalMapping]
[-CimSession <CimSession[]>]
[-ThrottleLimit <Int32>]
[-AsJob]
[-WhatIf]
[-Confirm]
[<CommonParameters>]
```

Description

The **New-SmbMapping** cmdlet creates a Server Message Block (SMB) mapping on the SMB client to an SMB share.

Examples

Example 1: Create an SMB mapping

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```
PS C:\>New-SmbMapping -LocalPath 'X:' -RemotePath '\\Contoso-S0\VMFiles'
Status                                Local Path
```



This command creates an SMB mapping.

Parameters

-AsJob

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

 Expand table

Type:	SwitchParameter
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-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](#) or [Get-CimSession](#) cmdlet. The default is the current session on the local computer.

 Expand table

Type:	CimSession[]
Aliases:	Session
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-CompressNetworkTraffic

Indicates that SMB compression is requested for the mapped drive if the SMB server supports it.

 Expand table

Type:	Boolean
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-Confirm


Prompts you for confirmation before running the cmdlet.

 Expand table

Type:	SwitchParameter
Aliases:	cf
Position:	Named
Default value:	False
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-GlobalMapping


Indicates that the SMB mapping is global instead of user-specific and is equivalent to using New-SmbGlobalMapping without any explicit allow or deny settings.

 Expand table

Type:	SwitchParameter
Position:	Named
Default value:	False
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-HomeFolder

Indicates that the connection is made to the home folder of the user.

 Expand table

Type:	SwitchParameter
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-LocalPath

Specifies the local path to which the remote path is mapped.

 Expand table

Type:	String
Position:	1
Default value:	None

Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-Password

Specifies the password to be used to connect to the SMB share.

 Expand table

Type:	String
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-Persistent

Indicates that this connection is persistent.

 Expand table

Type:	Boolean
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-RemotePath

Specifies the remote path that is accessed from this computer.

 Expand table

Type:	String
Position:	2
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-RequireIntegrity

Indicates that SMB signing is required for the mapped drive.

 Expand table

Type:	Boolean
-------	---------

Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-RequirePrivacy

Indicates that SMB encryption is required for the mapped drive.

[Expand table](#)

Type:	Boolean
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-SaveCredentials

Indicates that the credentials provided should be saved for when a mapping to the same SMB server also is created.

[Expand table](#)

Type:	SwitchParameter
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-SkipCertificateCheck

Indicates that the client does not need to trust the server certificate's issuer in order to connect using SMB over QUIC.

[Expand table](#)

Type:	SwitchParameter
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-ThrottleLimit

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.

[Expand table](#)

Type:	Int32
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-TransportType

Specifies the network transport used by SMB. The acceptable values for this parameter are:

- TCP : Use TCP network transport.
- QUIC : Use QUIC network transport.
- None : Use default transport behavior (first try TCP then try QUIC).

[Expand table](#)

Type:	TransportType
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-UserName

Specifies the user name to use to connect to the SMB share.

[Expand table](#)

Type:	String
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-UseWriteThrough

Indicates that forced unit access ("write through") is required and bypasses all OS caches, forcing IO to disk.

[Expand table](#)

Type:	Boolean
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-WhatIf

Shows what would happen if the cmdlet runs. The cmdlet is not run.

 Expand table

Type:	SwitchParameter
Aliases:	wi
Position:	Named
Default value:	False
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

Inputs

None

Outputs

CimInstance

This cmdlet returns a **MSFT_SmbMapping** object that represents the newly created SMB mapping.

Related Links

- [Get-SmbMapping](#)
- [Remove-SmbMapping](#)

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