



## ***Windows PowerShell Get-Help on Cmdlet 'Set-SmbClientConfiguration'***

***PS:\>Get-HELP Set-SmbClientConfiguration -Full***

### NAME

Set-SmbClientConfiguration

### SYNOPSIS

Sets the SMB client configuration.

### SYNTAX

```
Set-SmbClientConfiguration [-AsJob] [-CimSession <CimSession[]>] [-CompressibilitySamplingSize <UInt64>]
[-CompressibleThreshold <UInt64>]
                        [-ConnectionCountPerRssNetworkInterface <UInt32>] [-DirectoryCacheEntriesMax <UInt32>]
[-DirectoryCacheEntrySizeMax <UInt32>] [-DirectoryCacheLifetime <UInt32>]
                        [-DisableCompression <Boolean>] [-DormantFileLimit <UInt32>] [-EnableBandwidthThrottling <Boolean>]
[-EnableByteRangeLockingOnReadOnlyFiles <Boolean>]
                        [-EnableCompressibilitySampling <Boolean>] [-EnableInsecureGuestLogons <Boolean>] [-EnableLargeMtu <Boolean>]
[-EnableLoadBalanceScaleOut <Boolean>]
                        [-EnableMultiChannel <Boolean>] [-EnableSecuritySignature <Boolean>] [-EncryptionCiphers <String>]
[-ExtendedSessionTimeout <UInt32>] [-FileInfoCacheEntriesMax
<UInt32>] [-FileInfoCacheLifetime <UInt32>] [-FileNotFoundCacheEntriesMax <UInt32>] [-FileNotFoundCacheLifetime
<UInt32>] [-Force] [-ForceSMBEncryptionOverQuic
```

<Boolean>] [-KeepConn <UInt32>] [-MaxCmds <UInt32>] [-MaximumConnectionCountPerServer <UInt32>]  
 [-OplocksDisabled <Boolean>] [-RequestCompression <Boolean>]  
 [-RequireSecuritySignature <Boolean>] [-SessionTimeout <UInt32>] [-SkipCertificateCheck <Boolean>] [-ThrottleLimit  
 <Int32>] [-UseOpportunisticLocking <Boolean>]  
 [-Confirm] [-WhatIf] [-WindowSizeThreshold <UInt32>] [<CommonParameters>]

## DESCRIPTION

The `Set-SmbClientConfiguration` cmdlet sets the Server Message Block (SMB) client configuration.

> [!NOTE] > - The EncryptionCiphers parameter is available beginning with 2022-06 Cumulative Update for > Microsoft server operating system version 21H2 for

x64-based Systems > ( KB5014665 (<https://support.microsoft.com/help/5014665>)), and Cumulative Update for Windows 11, > version 22H2 ( KB5014668

(<https://support.microsoft.com/help/5014668>)). > > - The CompressibilitySamplingSize , CompressibleThreshold , > EnableCompressibilitySampling , and

RequestCompression parameters are available beginning > with 2022-08 Cumulative Update for Microsoft server operating system version 21H2 for x64-based > Systems

( KB5016693 (<https://support.microsoft.com/help/5016693>)), and Cumulative Update for > Windows 11, version 22H2 ( KB5016691

(<https://support.microsoft.com/help/5016691>)).

## 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

-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=227967>)or Get-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

-CompressibilitySamplingSize <UInt64>

Specifies the size in bytes to sample in a file to look for compressible data. Although the parameter type is UInt64 , the sampling size can be specified up to a

maximum of `9,007,199,254,740,992` (9 PiB).

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-CompressibleThreshold <UInt64>

Specifies the threshold in bytes in which to attempt to find compressible data. Although the parameter type is UInt64 , the threshold can be specified up to a

maximum of `9,007,199,254,740,992` (9 PiB).

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

#### -ConnectionCountPerRssNetworkInterface <UInt32>

Specifies the SMB connection count per each RSS network interface.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

#### -DirectoryCacheEntriesMax <UInt32>

Specifies the maximum cache entries that can be in the directory cache.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

#### -DirectoryCacheEntrySizeMax <UInt32>

Specifies the maximum size of directory cache entry.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

#### -DirectoryCacheLifetime <UInt32>

Specifies the directory cache lifetime.

Required? false

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

-DisableCompression <Boolean>

Specifies that the SMB client ignores all requests for compression from applications or SMB servers.

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

-DormantFileLimit <UInt32>

Specifies the dormant file limit.

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

-EnableBandwidthThrottling <Boolean>

Indicates that bandwidth throttling is enabled.

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

-EnableByteRangeLockingOnReadOnlyFiles <Boolean>

Indicates that byte range locking on read-only files is enabled.

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

#### -EnableCompressibilitySampling <Boolean>

Controls the sampling behavior. SMB by default always attempts to compress the entire file when a client or server requests it. With EnableCompressibilitySampling

set to ``$true``, SMB uses the compression sampling algorithm where it attempts to compress the file based on the values configured in the

CompressibilitySamplingSize and CompressibleThreshold parameters.

When you specify EnableCompressibilitySampling as ``$true`` and don't specify either the CompressibilitySamplingSize or CompressibleThreshold parameters, the

algorithm attempts to compress the first ``524,288,000`` bytes (500 MiB) of a file during transfer. The algorithm tries to track that at least ``104,857,600`` bytes

(100 MiB) compresses within that 500 MiB range. If fewer than 100 MiB was compressible, SMB compression stops trying to compress the rest of the file. If at least

100 MiB compressed, SMB compression attempts to compress the rest of the file.

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

#### -EnableInsecureGuestLogons <Boolean>

Indicates whether SMB client will allow insecure guest logons to an SMB server.

|           |       |
|-----------|-------|
| Required? | false |
|-----------|-------|

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

**-EnableLargeMtu <Boolean>**

Indicates that large MTU is enabled.

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

**-EnableLoadBalanceScaleOut <Boolean>**

Indicates whether load balance scale out is enabled.

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

**-EnableMultiChannel <Boolean>**

Indicates that multi-channel is enabled.

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

**-EnableSecuritySignature <Boolean>**

Indicates that the security signature is enabled.

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

#### -EncryptionCiphers <String>

Specifies the encryption ciphers used by the SMB client and the preferred order.

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

#### -ExtendedSessionTimeout <UInt32>

Specifies the extended session time-out.

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

#### -FileInfoCacheEntriesMax <UInt32>

Specifies the maximum number entries that can be in the file information cache.

|                        |       |
|------------------------|-------|
| Required?              | false |
| Position?              | named |
| Default value          | None  |
| Accept pipeline input? | False |



Accept wildcard characters? false

**-FileInfoCacheLifetime <UInt32>**

Specifies the file information cache lifetime.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

**-FileNotFoundCacheEntriesMax <UInt32>**

Specifies the maximum number entries that can be in the file not found cache.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

**-FileNotFoundCacheLifetime <UInt32>**

Specifies the file not found cache lifetime.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

**-Force [<SwitchParameter>]**

Forces the command to run without asking for user confirmation.

Required? false

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

**-ForceSMBEncryptionOverQuic <Boolean>**

Specifies that the SMB client uses SMB encryption inside of the SMB over QUIC TLS 1.3 encrypted tunnel even if the SMB server doesn't require it.

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

**-KeepConn <UInt32>**

Specifies the time, in seconds, before the SMB client session is automatically disconnected.

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

**-MaxCmds <UInt32>**

Specifies the maximum number of concurrent outstanding network requests that the SMB client supports.

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

#### -MaximumConnectionCountPerServer <UInt32>

Specifies the maximum connection count per server.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

#### -OplocksDisabled <Boolean>

Indicates that opportunistic locks are disabled.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

#### -RequestCompression <Boolean>

Indicates if an SMB client should always request compression even if the server or application didn't specify it.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

#### -RequireSecuritySignature <Boolean>

Indicates that the security signature is required.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

#### -SessionTimeout <UInt32>

Specifies the session time-out.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

#### -SkipCertificateCheck <Boolean>

Specifies that the SMB client not trust the SMB over QUIC SMB server certificate issuer. Required when using a self-signed certificate.

Required? false

Position? named

Default value None

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

-UseOpportunisticLocking <Boolean>

Indicates that opportunistic locks are used.

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.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-WindowSizeThreshold <UInt32>

Specifies the window size threshold.

Required? false

Position?                named  
Default value            None  
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

None

NOTES

----- Example 1: Set the SMB client configuration -----

Set-SmbClientConfiguration -ConnectionCountPerRssNetworkInterface 8 -Confirm:\$false

This command sets the SMB client configuration without user confirmation.

----- Example 2: Specify encryption ciphers -----

Set-SmbClientConfiguration -EncryptionCiphers "AES\_128\_GCM, AES\_256\_GCM" -Confirm:\$false

This command specifies the encryption ciphers used by the SMB client, and the preferred order without user confirmation.

#### RELATED LINKS

Online

Version:

[https://learn.microsoft.com/powershell/module/smbshare/set-smbclientconfiguration?view=windowsserver2022-ps&wt.mc\\_id=ps-gethelp](https://learn.microsoft.com/powershell/module/smbshare/set-smbclientconfiguration?view=windowsserver2022-ps&wt.mc_id=ps-gethelp)

Get-SmbClientConfiguration

Reset-SmbClientConfiguration