



python



PowerShell

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### ***PowerShell Get-Help on command 'Set-SmbClientConfiguration'***

***PS C:\Users\wahid> Get-Help Set-SmbClientConfiguration***

#### 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.

-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.

`-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).

`-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).

`-ConnectionCountPerRssNetworkInterface <UInt32>`

Specifies the SMB connection count per each RSS network interface.

`-DirectoryCacheEntriesMax <UInt32>`

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

`-DirectoryCacheEntrySizeMax <UInt32>`

Specifies the maximum size of directory cache entry.

`-DirectoryCacheLifetime <UInt32>`

Specifies the directory cache lifetime.

`-DisableCompression <Boolean>`

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

`-DormantFileLimit <UInt32>`

Specifies the dormant file limit.

-EnableBandwidthThrottling <Boolean>

Indicates that bandwidth throttling is enabled.

-EnableByteRangeLockingOnReadOnlyFiles <Boolean>

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

-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.

-EnableInsecureGuestLogons <Boolean>

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

-EnableLargeMtu <Boolean>

Indicates that large MTU is enabled.

-EnableLoadBalanceScaleOut <Boolean>

Indicates whether load balance scale out is enabled.

-EnableMultiChannel <Boolean>

Indicates that multi-channel is enabled.

-EnableSecuritySignature <Boolean>

Indicates that the security signature is enabled.

-EncryptionCiphers <String>

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

-ExtendedSessionTimeout <UInt32>

Specifies the extended session time-out.

-FileInfoCacheEntriesMax <UInt32>

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

-FileInfoCacheLifetime <UInt32>

Specifies the file information cache lifetime.

-FileNotFoundCacheEntriesMax <UInt32>

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

-FileNotFoundCacheLifetime <UInt32>

Specifies the file not found cache lifetime.

-Force [<SwitchParameter>]

Forces the command to run without asking for user confirmation.

-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.

-KeepConn <UInt32>

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

-MaxCmds <UInt32>

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

-MaximumConnectionCountPerServer <UInt32>

Specifies the maximum connection count per server.

-OplocksDisabled <Boolean>

Indicates that opportunistic locks are disabled.

-RequestCompression <Boolean>

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

-RequireSecuritySignature <Boolean>

Indicates that the security signature is required.

-SessionTimeout <UInt32>

Specifies the session time-out.

-SkipCertificateCheck <Boolean>

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

-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.

`-UseOpportunisticLocking <Boolean>`

Indicates that opportunistic locks are used.

`-Confirm [<SwitchParameter>]`

Prompts you for confirmation before running the cmdlet.

`-WhatIf [<SwitchParameter>]`

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

`-WindowSizeThreshold <UInt32>`

Specifies the window size threshold.

`<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>).

----- 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.

#### REMARKS

To see the examples, type: "get-help Set-SmbClientConfiguration -examples".

For more information, type: "get-help Set-SmbClientConfiguration -detailed".

For technical information, type: "get-help Set-SmbClientConfiguration -full".

For online help, type: "get-help Set-SmbClientConfiguration -online"