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PowerShell

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

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

#### NAME

Set-SmbServerConfiguration

#### SYNOPSIS

Sets the Server Message Block (SMB) server configuration.

#### SYNTAX

```
Set-SmbServerConfiguration [-AnnounceComment <String>] [-AnnounceServer  
<Boolean>] [-AsJob] [-AsynchronousCredits <UInt32>] [-AuditSmb1Access  
<Boolean>] [-AutoDisconnectTimeout <UInt32>] [-AutoShareServer <Boolean>]  
[-AutoShareWorkstation <Boolean>] [-CachedOpenLimit <UInt32>] [-CimSession  
<CimSession[]>] [-DisableCompression <Boolean>]  
[-DisableSmbEncryptionOnSecureConnection <Boolean>]  
[-DurableHandleV2TimeoutInSeconds <UInt32>] [-EnableAuthenticateUserSharing  
<Boolean>] [-EnableDownlevelTimewarp <Boolean>] [-EnableForcedLogoff  
<Boolean>] [-EnableLeasing <Boolean>] [-EnableMultiChannel <Boolean>]  
[-EnableOplocks <Boolean>] [-EnableSecuritySignature <Boolean>]  
[-EnableSMB1Protocol <Boolean>] [-EnableSMB2Protocol <Boolean>]  
[-EnableSMBQUIC <Boolean>] [-EnableStrictNameChecking <Boolean>] [-EncryptData  
<Boolean>] [-EncryptionCiphers <String>] [-Force] [-IrpStackSize <UInt32>]
```

```

[-KeepAliveTime <UInt32>] [-MaxChannelPerSession <UInt32>] [-MaxMpxCount
<UInt32>] [-MaxSessionPerConnection <UInt32>] [-MaxThreadsPerQueue <UInt32>]
[-MaxWorkItems <UInt32>] [-NullSessionPipes <String>] [-NullSessionShares
<String>] [-OplockBreakWait <UInt32>] [-PendingClientTimeoutInSeconds
<UInt32>] [-RejectUnencryptedAccess <Boolean>] [-RequestCompression <Boolean>]
[-RequireSecuritySignature <Boolean>] [-RestrictNamedpipeAccessViaQuic
<Boolean>] [-ServerHidden <Boolean>] [-Smb2CreditsMax <UInt32>]
[-Smb2CreditsMin <UInt32>] [-SmbServerNameHardeningLevel {0 | 1 | 2}]
[-ThrottleLimit <Int32>] [-TreatHostAsStableStorage <Boolean>]
[-ValidateAliasNotCircular <Boolean>] [-ValidateShareScope <Boolean>]
[-ValidateShareScopeNotAliased <Boolean>] [-ValidateTargetName <Boolean>]
[-Confirm] [-WhatIf] [<CommonParameters>]

```

## DESCRIPTION

The `Set-SmbServerConfiguration` cmdlet sets the Server Message Block (SMB) Service configuration. For more information on SMB server and protocol specifications, see Overview of file sharing using the SMB 3 protocol in Windows Server (</windows-server/storage/file-server/file-server-smb-overview>) and [MS-SMB2]:Server Message Block (SMB) Protocol Versions 2 and 3 ([/openspecs/windows\\_protocols/ms-smb2/5606ad47-5ee0-437a-817e-70c366052962](/openspecs/windows_protocols/ms-smb2/5606ad47-5ee0-437a-817e-70c366052962)).

> [!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 DisableCompression 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

-AnnounceComment <String>

Specifies the announce comment string.

-AnnounceServer <Boolean>

Indicates that this server announces itself by using browser announcements.

-AsJob [<SwitchParameter>]

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

-AsynchronousCredits <UInt32>

Specifies the asynchronous credits.

-AuditSmb1Access <Boolean>

Enables auditing of SMB version 1 protocol in Windows Event Log.

-AutoDisconnectTimeout <UInt32>

Specifies the auto disconnect time-out.

-AutoShareServer <Boolean>

Indicates that the default server shares are shared out.

-AutoShareWorkstation <Boolean>

Indicates whether the default workstation shares are shared out.

-CachedOpenLimit <UInt32>

Specifies the maximum number of cached open files.

`-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 (/powershell/module/cimcmdlets/new-cimsession)` or `Get-CimSession (/powershell/module/cimcmdlets/get-cimsession)` cmdlet. The default is the current session on the local computer.

`-DisableCompression <Boolean>`

Indicates that the SMB server should never compress files even if client or application requested it.

`-DisableSmbEncryptionOnSecureConnection <Boolean>`

Specifies that SMB encryption will also be used if configured on the SMB server. By default, QUIC encryption only is used in order to avoid double encryption affecting performance unnecessarily. If a client requires SMB encryption using ``Set-SmbClientConfiguration -ForceSMBEncryptionOverQuic $true`` then the `DisableSmbEncryptionOnSecureConnection` value is ignored and SMB encryption occurs.

`-DurableHandleV2TimeoutInSeconds <UInt32>`

Specifies the durable handle v2 time-out period, in seconds.

`-EnableAuthenticateUserSharing <Boolean>`

Indicates whether authenticate user sharing is enabled.

`-EnableDownlevelTimewarp <Boolean>`

Indicates whether down-level timewarp support is disabled.

`-EnableForcedLogoff <Boolean>`

Indicates whether forced logoff is enabled.

`-EnableLeasing <Boolean>`

Indicates whether leasing is disabled.

-EnableMultiChannel <Boolean>

Indicates whether multi-channel is disabled.

-EnableOplocks <Boolean>

Indicates whether the opportunistic locks are enabled.

-EnableSecuritySignature <Boolean>

Indicates whether the security signature is enabled.

-EnableSMB1Protocol <Boolean>

Indicates whether the SMB1 protocol is enabled.

-EnableSMB2Protocol <Boolean>

Indicates whether the SMB2 protocol is enabled.

-EnableSMBQUIC <Boolean>

Specifies that the SMB over QUIC protocol is enabled.

-EnableStrictNameChecking <Boolean>

Indicates whether the server should perform strict name checking on incoming connects.

-EncryptData <Boolean>

Indicates whether the sessions established on this server are encrypted.

-EncryptionCiphers <String>

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

-Force [<SwitchParameter>]

Forces the command to run without asking for user confirmation.

-IrpStackSize <UInt32>

Specifies the default IRP stack size.

-KeepAliveTime <UInt32>

Specifies the keep alive time.

-MaxChannelPerSession <UInt32>

Specifies the maximum channels per session.

-MaxMpxCount <UInt32>

Specifies the maximum MPX count for SMB1.

-MaxSessionPerConnection <UInt32>

Specifies the maximum sessions per connection.

-MaxThreadsPerQueue <UInt32>

Specifies the maximum threads per queue.

-MaxWorkItems <UInt32>

Specifies the maximum SMB1 work items.

-NullSessionPipes <String>

Specifies the null session pipes.

-NullSessionShares <String>

Specifies the null session shares.

-OplockBreakWait <UInt32>

Specifies how long the create caller waits for an opportunistic lock break.

-PendingClientTimeoutInSeconds <UInt32>

Specifies the pending client time-out period, in seconds.

-RejectUnencryptedAccess <Boolean>

Indicates whether the client that doesn't support encryption is denied access if it attempts to connect to an encrypted share.

-RequestCompression <Boolean>

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

-RequireSecuritySignature <Boolean>

Indicates whether the security signature is required.

-RestrictNamedpipeAccessViaQuic <Boolean>

Specifies that named pipes are allowed when using SMB over QUIC. A value of `true` prevents use of named pipes and is the default.

-ServerHidden <Boolean>

Indicates whether the server announces itself.

-Smb2CreditsMax <UInt32>

Specifies the maximum SMB2 credits.

-Smb2CreditsMin <UInt32>

Specifies the minimum SMB2 credits.

-SmbServerNameHardeningLevel <UInt32>

Controls the level of validation that a server performs on the service principal name (SPN) that is provided by the client device when the client establishes a session using Server Message Block (SMB). The acceptable values are:

- `0`: Don't enforce SPN check.

- `1`: Allow clients who didn't provide the target, but fail those who do

provide the target and it

doesn't match. - `2`: Only allow clients who supply matching targets.

**-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.

**-TreatHostAsStableStorage <Boolean>**

Indicates whether the host is treated as the stable storage.

**-ValidateAliasNotCircular <Boolean>**

Indicates whether the aliases that aren't circular are validated.

**-ValidateShareScope <Boolean>**

Indicates that the existence of share scopes is checked during share creation.

**-ValidateShareScopeNotAliased <Boolean>**

Indicates whether the share scope being aliased is validated.

**-ValidateTargetName <Boolean>**

Indicates whether the target name is validated.

**-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.

<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 Service configuration -----

```
Set-SmbServerConfiguration -MaxChannelPerSession 16 -Confirm:$false
```

This command sets the SMB Service configuration without user confirmation.

----- Example 2: Turn on SMB signing and encryption -----

```
$Parameters = @{  
    RequireSecuritySignature = $true  
    EnableSecuritySignature = $true  
    EncryptData = $true  
    Confirm = $false  
}  
Set-SmbServerConfiguration @Parameters
```

This command turns on SMB signing and encryption without user confirmation.

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

Example 3: Turn off the default server and workstations shares

```
Set-SmbServerConfiguration -AutoShareServer $false -AutoShareWorkstation  
$false -Confirm:$false
```

This command turns off the default server and workstations shares without user confirmation.

----- Example 4: Turn off server announcements -----

```
Set-SmbServerConfiguration -ServerHidden $false -AnnounceServer $false  
-Confirm:$false
```

This command turns off server announcements without user confirmation.

----- Example 5: Turn off SMB1 -----

```
Set-SmbServerConfiguration -EnableSMB1Protocol $false -Confirm:$false
```

This command disables SMB1 on the SMB server without user confirmation.

----- Example 6: Specify encryption ciphers -----

```
Set-SmbServerConfiguration -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-SmbServerConfiguration -examples".

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

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

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