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Windows PowerShell Get-Help on Cmdlet 'Set-NetAdapterBinding'

PS:\>Get-HELP Set-NetAdapterBinding -Full

NAME

Set-NetAdapterBinding

SYNOPSIS

Sets the binding state of a transport or filter on a network adapter.

SYNTAX

Set-NetAdapterBinding [-Name] <String[]> [-AllBindings] [-AsJob] [-CimSession <CimSession[]>] [-ComponentID <String[]>] [-Confirm] [-DisplayName <String[]>] [-Enabled

<Boolean>] [-IncludeHidden] [-PassThru] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]

Set-NetAdapterBinding [-AllBindings] [-AsJob] [-CimSession <CimSession[]>] [-ComponentID <String[]>] [-Confirm] [-DisplayName <String[]>] [-Enabled <Boolean>]

[-IncludeHidden] -InterfaceDescription <String[]> [-PassThru] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]

Set-NetAdapterBinding [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-Enabled <Boolean>] -InputObject <CimInstance[]> [-PassThru] [-ThrottleLimit <Int32>]

[-WhatIf] [<CommonParameters>]

DESCRIPTION

The Set-NetAdapterBinding cmdlet sets the binding state of a transport or filter on a network adapter. By default only visible bindings are set unless the AllBindings

parameter is specified. If only enabling or disabling bindings, then the Enable-NetAdapterBinding or Disable-NetAdapterBinding cmdlets can be used. If you disable or

enable a network adapter binding, the cmdlet can automatically enable or disable other network adapter bindings.

PARAMETERS

-AllBindings [<SwitchParameter>]

Indicates that the cmdlet sets filters or transports that are not visible by default.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-AsJob [<SwitchParameter>]

Runs the cmdlet as a background job. Use this parameter to run commands that take a long time to complete. The cmdlet immediately returns an object that

represents the job and then displays the command prompt. You can continue to work in the session while the job completes. To manage the job, use the `*-Job`

cmdlets. To get the job results, use the Receive-Job (https://go.microsoft.com/fwlink/?LinkID=113372)cmdlet. For more information about Windows PowerShellr

background jobs, see about_Jobs (https://go.microsoft.com/fwlink/?LinkID=113251).

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

-ComponentID <String[]>

Specifies as an array the underlying names of the transport or filter in the following form: `ms_xxxx`, such as `ms_tcpip`.

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

-DisplayName <String[]>

Specifies an array of transport or filter names shown in the Networking tab under the network adapter properties in Windows Serverr 2012 and later.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Enabled <Boolean>

Indicates whether the transport or filter is enabled or disabled. The acceptable values for this parameter are: $True or $False.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-IncludeHidden [<SwitchParameter>]

Indicates that the cmdlet includes both visible and hidden network adapters in the operation. By default only visible network adapters are included. If a wildcard

character is used in identifying a network adapter and this parameter has been specified, then the wildcard string is matched against both hidden and visible

network adapters.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-InputObject <CimInstance[]>

Specifies the input to this cmdlet. You can use this parameter, or you can pipe the input to this cmdlet.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-InterfaceDescription <String[]>

Specifies an array of network adapter interface descriptions. For a physical network adapter this is typically the name of the vendor of the network adapter

followed by a part number and description, such as `Contoso 12345 Gigabit Network Device`.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Name <String[]>

Specifies an array of network adapter names.

Required? true

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-PassThru [<SwitchParameter>]

Returns an object representing the item with which you are working. By default, this cmdlet does not generate any output.

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 PowerShellr 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

-WhatIf [<SwitchParameter>]

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

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

Microsoft.Management.Infrastructure.CimInstance#ROOT/StandardCimv2/MSFT_NetAdapter BindingSettingData[]

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.

OUTPUTS

Microsoft.Management.Infrastructure.CimInstance#ROOT/StandardCimv2/MSFT_NetAdapter BindingSettingData

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.

NOTES

- Example 1: Enable TCP/IPv4 on the specified network adapter -

PS C:\> Set-NetAdapterBinding -Name "MyAdapter" -DisplayName "Internet Protocol Version 4 (TCP/IPv4)" -Enabled $True

This command enables TCP/IPv4 on the network adapter named MyAdapter.

- Example 2: Disable TCP/IPv4 on the specified network adapter -

PS C:\> Set-NetAdapterBinding -Name "MyAdapter" -DisplayName "Internet Protocol Version 4 (TCP/IPv4)" -Enabled $False

This command disables TCP/IPv4 on the network adapter named MyAdapter.

Example 3: Enable TCP/IPv4 on the specified network adapter using the component ID

PS C:\> Set-NetAdapterBinding -Name "MyAdapter" -ComponentID ms_tcpip -Enabled $True

This command enables TCP/IPv4 on the network adapter named MyAdapter using the component ID.

RELATED LINKS

Online Version: https://learn.microsoft.com/powershell/module/netadapter/set-netadapterbinding?view=windowsserver2022-ps&wt.mc_id=ps-gethelp

Disable-NetAdapterBinding

Enable-NetAdapterBinding

Get-NetAdapterBinding