



Windows PowerShell Get-Help on Cmdlet 'Get-NetAdapterHardwareInfo'

PS:\>Get-HELP Get-NetAdapterHardwareInfo -Full

NAME

Get-NetAdapterHardwareInfo

SYNOPSIS

Gets the hardware information of the network adapter.

SYNTAX

Get-NetAdapterHardwareInfo [-AsJob] [-CimSession <CimSession[]>] [-IncludeHidden] -InterfaceDescription <String[]>
[-ThrottleLimit <Int32>] [<CommonParameters>]

Get-NetAdapterHardwareInfo [[-Name] <String[]>] [-AsJob] [-CimSession <CimSession[]>] [-IncludeHidden] [-ThrottleLimit
<Int32>] [<CommonParameters>]

DESCRIPTION

The Get-NetAdapterHardwareInfo cmdlet gets the hardware information of the network adapter. This includes PCI capabilities, MSI capabilities, and PCI device custom properties. These are read-only properties.

PARAMETERS

-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 PowerShell

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

-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

-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 network adapter names.

Required? false
Position? 0
Default value None
Accept pipeline input? True (ByPropertyName)
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

<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

Microsoft.Management.Infrastructure.CimInstance#ROOT/StandardCimv2/MSFT_NetAdapterHardwareInfoSettingData

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: Display the default view of hardware properties for all visible network adapters

```
PS C:\> Get-NetAdapterHardwareInfo -Name "**"
```

This command displays the default view of hardware properties for all visible network adapters.

Example 2: Display the default view of hardware properties the specified network adapter

```
PS C:\> Get-NetAdapterHardwareInfo -Name "**" | Format-List -Property "**"
```

This command displays all of the hardware information properties for the network adapter named MyAdapter.

RELATED LINKS

Online

Version:

https://learn.microsoft.com/powershell/module/netadapter/get-netadapterhardwareinfo?view=windowsserver2022-ps&wt.mc_id=ps-gethelp