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PowerShell Get-Help on command 'Get-NetAdapter'

PS C:\Users\wahid> Get-Help Get-NetAdapter

NAME

Get-NetAdapter

SYNOPSIS

Gets the basic network adapter properties.

SYNTAX

Get-NetAdapter [-AsJob] [-CimSession <CimSession[]>] [-IncludeHidden]

-InterfaceDescription <String[]> [-Physical] [-ThrottleLimit <Int32>]

[<CommonParameters>]

Get-NetAdapter [-AsJob] [-CimSession <CimSession[]>] [-IncludeHidden]

-InterfaceIndex <UInt32[]> [-Physical] [-ThrottleLimit <Int32>]

[<CommonParameters>]

Get-NetAdapter [[-Name] <String[]>] [-AsJob] [-CimSession <CimSession[]>]

[-IncludeHidden] [-Physical] [-ThrottleLimit <Int32>] [<CommonParameters>]

DESCRIPTION

The Get-NetAdapter cmdlet gets the basic network adapter properties. By default only visible adapters are returned. To see the common network adapter properties, pipe the output into the Format-List cmdlet. To see all the properties, pipe the output to the Format-List cmdlet with the Property parameter specified as the wildcard character "*". This cmdlet supports multiple views. The default view is as a table. To see more information regarding various network adapter identifiers use the names view using the Format-Table cmdlet with the View parameter specified as name . To see more information regarding the miniport, device driver, such as driver date or version use the driver view using the Format-Table cmdlet with the View parameter specified as driver .

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

-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](https://go.microsoft.com/fwlink/p/?LinkId=227966)cmdlet. The default is the current session on the local computer.

-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.

-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`.

-InterfaceIndex <UInt32[]>

Specifies the network adapter interface index number as an array.

-Name <String[]>

Specifies an array of network adapter names.

-Physical [<SwitchParameter>]

Indicates that the cmdlet gets all physical network adapters.

-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.

<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: Get all visible network adapters ---------

PS C:\> Get-NetAdapter -Name *

This command gets all of the visible network adapters.

---- Example 2: Get all visible and hidden network adapters ----

PS C:\> Get-NetAdapter -Name * -IncludeHidden

This command gets all of the network adapters.

--------- Example 3: Get all physical network adapters ---------

PS C:\> Get-NetAdapter -Name * -Physical

This command gets all of the physical network adapters.

---- Example 4: Get a network adapter by the specified name ----

PS C:\> Get-NetAdapter -Name "Ethernet 2"

This command gets the network adapter named Ethernet 2.

---- Example 5: Get a network adapter by the specified name ----

PS C:\> Get-NetAdapter -Name "E*2"

This command gets adapters starting with "E" and ending in "2" using wildcard characters.

Example 6: Display the common properties for the specified network adapter

PS C:\> Get-NetAdapter -Name "Ethernet 3" | Format-List -Property *

This command displays the common properties for the network adapter named Ethernet 3 and formats the list using the Format-List cmdlet.

Example 7: Display all properties for the specified network adapter

PS C:\> Get-NetAdapter -Name "Ethernet 6" | Format-List -Property *

This command displays all of the properties for the network adapter named Ethernet 6.

Example 8: Get all network adapters using the interface description that matches a prefix pattern

PS C:\> Get-NetAdapter -Name * -InterfaceDescription "VendorAdapter*"

This command gets all of the network adapters using the interface description that matches the prefix pattern VendorAdapter.

- Example 9: Display parameter values for all network adapters -

PS C:\> Get-NetAdapter -Name "*" -IncludeHidden | Format-List -Property "Name", "InterfaceDescription", "InterfaceName"

This command displays the Name , InterfaceDescription , and InterfaceName parameter values for all network adapters.

Example 10: Get the visible network adapters on the specified server

PS C:\> Get-NetAdapter -Name * -CimSession "Server5"

This command gets the visible network adapters on the server named Server5. The server named Server5 can be a remote computer.

Example 11: Get the visible network adapters and format the output

PS C:\> Get-NetAdapter -Name * | Format-Table -View Driver

This command gets the visible network adapters and formats the output to present driver information.

Example 12: Gets visible network adapters and format the output

```
PS C:\> Get-NetAdapter -Name * | Format-Table -View Name
```

This command gets the visible network adapters and formats the output to present various names by which a network adapter can be identified such as the Name , InterfaceDescription , and InterfaceName parameter values.

REMARKS

To see the examples, type: "get-help Get-NetAdapter -examples".

For more information, type: "get-help Get-NetAdapter -detailed".

For technical information, type: "get-help Get-NetAdapter -full".

For online help, type: "get-help Get-NetAdapter -online"