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

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

NAME

Get-NetAdapterAdvancedProperty

SYNOPSIS

Gets the advanced properties for a network adapter.

SYNTAX

Get-NetAdapterAdvancedProperty [[-Name] <String[]>] [-AllProperties] [-AsJob] [-CimSession <CimSession[]>] -DisplayName <String[]> [-IncludeHidden] [-ThrottleLimit

<Int32>] [<CommonParameters>]

Get-NetAdapterAdvancedProperty [-AllProperties] [-AsJob] [-CimSession <CimSession[]>] -DisplayName <String[]> [-IncludeHidden] -InterfaceDescription <String[]>

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

Get-NetAdapterAdvancedProperty [-AllProperties] [-AsJob] [-CimSession <CimSession[]>] [-IncludeHidden] -InterfaceDescription <String[]> -RegistryKeyword <String[]>

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

Get-NetAdapterAdvancedProperty [-AllProperties] [-AsJob] [-CimSession <CimSession[]>] [-IncludeHidden] -InterfaceDescription <String[]> [-ThrottleLimit <Int32>]

[<CommonParameters>]

Get-NetAdapterAdvancedProperty [[-Name] <String[]>] [-AllProperties] [-AsJob] [-CimSession <CimSession[]>] [-IncludeHidden] [-ThrottleLimit <Int32>]

[<CommonParameters>]

Get-NetAdapterAdvancedProperty [[-Name] <String[]>] [-AllProperties] [-AsJob] [-CimSession <CimSession[]>] [-IncludeHidden] -RegistryKeyword <String[]>

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

DESCRIPTION

The Get-NetAdapterAdvancedProperty cmdlet gets the advanced properties for a network adapter. By default this cmdlet returns advanced properties that have display

name values, meaning that these advanced properties are visible in the Advanced pane of the Adapter Properties in the Windows UI. Advanced properties that do not have

display names require that the AllProperties parameter is specified. Individual advanced properties can also be selected either by DisplayName or RegistryKeyword

parameters. Both of these parameters support the use of wildcard characters. The advanced properties are normally found in the following location in the registry

`HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E972-E325-11CE-BFC1-08002BE10318}\xxxx xxxx` where `xxxx` is a four character string representing an

integer such as 0007. The standardized keywords have a RegistryKeyword name that begins with an asterisk "*". The valid values for these keywords are available by

piping the output into the Format-List cmdlet with the ValidDisplayValues or the ValidRegistryValues properties specified.

PARAMETERS

-AllProperties [<SwitchParameter>]

Indicates that the cmdlet gets all the advanced properties of the network adapter. If this parameter is not specified, then

only advanced properties that have a

DisplayName parameter are returned.

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

-DisplayName <String[]>

Specifies the advanced property name, as an array, shown in the Advanced tab under the network adapter properties in Windows Serverr 2012 and later.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

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? False

Accept wildcard characters? false

-Name <String[]>

Specifies an array of network adapter names.

Required? false

Position? 0

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-RegistryKeyword <String[]>

Specifies the name of the registry value that this cmdlet reads, such as one of the registry values found in

HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Class\{4D36E972-E325-11CE-BFC1-08002BE10318}\0007.

Required? true

Position? named

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 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

<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_NetAdapterAdvancedPropertySettingData

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: Get all advanced properties from all visible network adapters by the specified display name

PS C:\> Get-NetAdapterAdvancedProperty -Name "*"

This command gets all of the advanced properties that have a display name from all visible network adapters.

Example 2: Get all advanced properties from all visible network adapters

```
PS C:\> Get-NetAdapterAdvancedProperty -Name "*" -AllProperties
```

This command gets all of the advanced properties from all visible network adapters.

Example 3: Get all registry properties from all visible network

```
PS C:\> Get-NetAdapterAdvancedProperty -Name "*" -RegistryKeyword "*"
```

This command gets all of the registry properties from all visible network adapters.

Example 4: Get all advanced properties from hidden and visible network adapters

```
PS C:\> Get-NetAdapterAdvancedProperty -Name "*" -AllProperties -IncludeHidden
```

This command gets all of the advanced properties from all visible and hidden network adapters.

Example 5: Get all advanced properties from all network adapters

```
PS C:\> Get-NetAdapterAdvancedProperty -Name "*" -RegistryKeyword "*" -IncludeHidden
```

This command gets all of the advanced properties from all network adapters.

Example 6: Get all unformatted advanced properties from the specified network adapter

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

This command gets all of the unformatted, advanced properties from the network adapter named MyAdapter.

Example 7: Get the advanced properties for network adapters with a search string for the display name

```
PS C:\> Get-NetAdapterAdvancedProperty -Name "*" | Where-Object -FilterScript { $_.DisplayName -Like "TCP*" }
```

This command gets the advanced properties for network adapters that have a display name that starts with TCP.

Online Version:

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

New-NetAdapterAdvancedProperty

Remove-NetAdapterAdvancedProperty

Reset-NetAdapterAdvancedProperty

Set-NetAdapterAdvancedProperty