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### ***Windows PowerShell Get-Help on Cmdlet 'Get-NetworkSwitchEthernetPort'***

**PS:\>Get-HELP Get-NetworkSwitchEthernetPort -Full**

#### **NAME**

Get-NetworkSwitchEthernetPort

#### **SYNOPSIS**

Gets port information for a network switch.

#### **SYNTAX**

Get-NetworkSwitchEthernetPort -CimSession <CimSession> [-DeviceId <String>] [<CommonParameters>]

Get-NetworkSwitchEthernetPort -CimSession <CimSession> -FullDuplexDisabled [<CommonParameters>]

Get-NetworkSwitchEthernetPort -CimSession <CimSession> -FullDuplexEnabled [<CommonParameters>]

Get-NetworkSwitchEthernetPort -CimSession <CimSession> -PortNumber <Int32> [<CommonParameters>]

#### **DESCRIPTION**

The Get-NetworkSwitchEthernetPort cmdlet gets port information for a network switch.

## PARAMETERS

### -CimSession <CimSession>

Specifies the CimSession that this cmdlet uses to connect to the network switch. For more information about CimSession objects, type `Get-Help New-CimSession`.

Required?	true
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

### -DeviceId <String>

Specifies a device ID. This cmdlet gets information for the port that this parameter specifies.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

### -FullDuplexDisabled [<SwitchParameter>]

Indicates that this cmdlet returns only ports that have FullDuplex disabled.

Required?	true
Position?	named
Default value	False
Accept pipeline input?	False
Accept wildcard characters?	false

### -FullDuplexEnabled [<SwitchParameter>]

Indicates that this cmdlet returns only ports that have FullDuplex enabled.

Required? true  
Position? named  
Default value False  
Accept pipeline input? False  
Accept wildcard characters? false

#### -PortNumber <Int32>

Specifies a port number. This cmdlet gets the port that the parameter specifies.

Required? true  
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

Microsoft.Management.Infrastructure.CimInstance#CIM\_EthernetPort

## NOTES

----- Example 1: Get all the ports for a device -----

```
PS C:\>$Session = New-CimSession -ComputerName "NetworkSwitch08"
```

```
PS C:\> Get-NetworkSwitchEthernetPort -CimSession $Session
```

The first command creates a CimSession for a network switch, and then stores it in the \$Session variable. For more information about CimSession objects, type

```
`Get-Help New-CimSession`.
```

The second command gets the ports for NetworkSwitch08 by using the \$Session object.

----- Example 2: Get a specific port -----

```
PS C:\>Get-NetworkSwitchEthernetPort -PortNumber 21 -CimSession $Session
```

Name	PortNumber	DeviceID	FullDuplex	AutoSense	PortType	MaxDataSize
Ethernet17	21	Ethernet17	True	False	0	9214

This command gets port 21. The example shows the console output for the command. The command includes a CimSession , similar to the first example.

----- Example 3: Get a port with a specified ID -----

```
PS C:\>Get-NetworkSwitchEthernetPort -DeviceID "Ethernet17" -CimSession $Session
```

This command gets the port for the device that has the ID Ethernet17. The command includes a CimSession , similar to the first example.

[https://learn.microsoft.com/powershell/module/networkswitchmanager/get-networkswitchetherport?view=windowsserver2022-ps&wt.mc\\_id=ps-gethelp](https://learn.microsoft.com/powershell/module/networkswitchmanager/get-networkswitchetherport?view=windowsserver2022-ps&wt.mc_id=ps-gethelp)

Disable-NetworkSwitchEthernetPort

Enable-NetworkSwitchEthernetPort