



## ***Windows PowerShell Get-Help on Cmdlet 'Set-NetworkSwitchPortMode'***

***PS:\>Get-HELP Set-NetworkSwitchPortMode -Full***

### NAME

Set-NetworkSwitchPortMode

### SYNOPSIS

Sets the port mode on a network switch.

### SYNTAX

Set-NetworkSwitchPortMode -AccessMode -CimSession <CimSession> [-Confirm] -InputObject <CimInstance[]> -VlanID <Int32> [-WhatIf] [<CommonParameters>]

Set-NetworkSwitchPortMode -CimSession <CimSession> [-Confirm] -InputObject <CimInstance[]> -IpAddress <String> -RouteMode -SubnetAddress <String> [-WhatIf]  
[<CommonParameters>]

Set-NetworkSwitchPortMode -CimSession <CimSession> [-Confirm] -InputObject <CimInstance[]> -TrunkMode -VlanIDs <UInt16[]> [-WhatIf] [<CommonParameters>]

### DESCRIPTION

The Set-NetworkSwitchPortMode cmdlet sets the port mode to access, trunk or route on a network switch.

## PARAMETERS

-AccessMode [<SwitchParameter>]

Indicates that this cmdlet sets the port to access mode.

Required? true

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-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

-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

-InputObject <CimInstance[]>

Specifies the input object that is used in a pipeline command.

Required?	true
Position?	named
Default value	None
Accept pipeline input?	True (ByValue)
Accept wildcard characters?	false

#### **-IpAddress <String>**

Specifies an IP address to set for the port in route mode.

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

#### **-RouteMode [<SwitchParameter>]**

Indicates that this cmdlet sets the port to route mode.

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

#### **-SubnetAddress <String>**

Specifies the subnet mask to set for the port in route mode.

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

Accept wildcard characters? false

#### -TrunkMode [<SwitchParameter>]

Indicates that this cmdlet sets the port to trunk mode.

Required? true

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

#### -VlanID <Int32>

Specifies the virtual local area network (VLAN) ID of the VLAN to set for the port in access mode.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

#### -VlanIDs <UInt16[]>

Specifies the VLAN IDs of the VLANs to set for the port in trunk mode.

Required? true

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 \(https://go.microsoft.com/fwlink/?LinkID=113216\)](https://go.microsoft.com/fwlink/?LinkID=113216).

## INPUTS

Microsoft.Management.Infrastructure.CimInstance[]

You can pipe an array of CimInstance objects that correspond to a network switch port to this cmdlet.

## OUTPUTS

System.Object

## NOTES

----- Example 1: Set a port to trunk mode -----

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

```
PS C:\> Set-NetworkSwitchPortMode -CimSession $Session -TrunkMode -VlanIDs 2,17,22
```

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 sets NetworkSwitch08 to use trunk mode by using the \$Session object. The command specifies IDs for three VLANs.

----- Example 2: Set a port to route mode -----

```
PS C:\>Set-NetworkSwitchPortMode -CimSession $Session -IpAddress "10.14.1.1" -RouteMode -SubnetAddress "255.255.0.0"
```

This command sets the port to route mode. The command specifies its IP address and the subnet mask. The command includes a CimSession , similar to the first example.

## RELATED LINKS

Online

Version:

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

Get-NetworkSwitchEthernetPort