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PowerShell

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PowerShell Get-Help on command 'Set-PcsvDeviceNetworkConfiguration'

PS C:\Users\wahid> Get-Help Set-PcsvDeviceNetworkConfiguration

NAME

Set-PcsvDeviceNetworkConfiguration

SYNOPSIS

Changes the network configuration of a PCSV device.

SYNTAX

```
Set-PcsvDeviceNetworkConfiguration [-TargetAddress] <String> [-Credential]
<PSCredential> [-ManagementProtocol] {WSMan | IPMI} [-IPv4AddressOrigin]
{Static | DHCP} [[-Port] <UInt16>] [-AsJob] [-Authentication {Default | Basic
| Digest}] [-CimSession <CimSession[]>] [-Confirm] [-IPv4Address <String>]
[-IPv4DefaultGateway <String>] [-IPv4SubnetMask <String>] [-PassThru]
[-SkipCACheck] [-SkipCNCheck] [-SkipRevocationCheck] [-ThrottleLimit <Int32>]
[-TimeoutSec <UInt32>] [-UseSSL] [-WhatIf] [<CommonParameters>]
```

```
Set-PcsvDeviceNetworkConfiguration [-IPv4AddressOrigin] {Static | DHCP}
[-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-IPv4Address <String>]
[-IPv4DefaultGateway <String>] [-IPv4SubnetMask <String>] -InputObject
<CimInstance[]> [-PassThru] [-ThrottleLimit <Int32>] [-WhatIf]
[<CommonParameters>]
```

```
Set-PcsvDeviceNetworkConfiguration [-IPv4AddressOrigin] {Static | DHCP}  
[-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-IPv4Address <String>]  
[-IPv4DefaultGateway <String>] [-IPv4SubnetMask <String>] [-PassThru]  
[-ThrottleLimit <Int32>] [-TimeoutSec <UInt32>] [-WhatIf] [<CommonParameters>]
```

DESCRIPTION

The Set-PcsvDeviceNetworkConfiguration cmdlet changes the network configuration of a Physical Computer System View (PCSV) device. You can configure the network settings of a device statically or dynamically, by using the DHCP service. If you specify a static network configuration, you must specify the IP address, subnet mask, and default gateway. This cmdlet currently supports devices that use the Intelligent Platform Management Interface (IPMI) protocol. Changing the network configuration disrupts the out-of-band session, and, therefore, this cmdlet can only be run on an in-band connection. To use with an in-band connection, you must have elevated privileges.

PARAMETERS

-AsJob [<SwitchParameter>]

Runs the cmdlet as a background job. Use this parameter to run commands that take a long time to complete.

-Authentication <Authentication>

Specifies an authentication method to use for devices managed by WS-Management. Do not specify this parameter for devices managed by using IPMI. The acceptable values for this parameter are:

- Basic

- Digest

- Default

-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.

-Confirm [<SwitchParameter>]

Prompts you for confirmation before running the cmdlet.

-Credential <PSCredential>

Specifies a PSCredential object based on a user name and password. To obtain a PSCredential object, use the Get-Credential cmdlet. For more information, type `Get-Help Get-Credential`. For IPMI devices, specify credentials that correspond to a user with Administrator privileges on the device.

-IPv4Address <String>

Specifies an IPv4 address for the PCSV device.

-IPv4AddressOrigin <PossibleIPv4Origins>

Specifies how the IP address is acquired. The acceptable values for this parameter are:

- Static

- DHCP

-IPv4DefaultGateway <String>

Specifies an IPv4 default gateway for the PCSV device.

-IPv4SubnetMask <String>

Specifies an IPv4 subnet mask for the PCSV device.

-InputObject <CimInstance[]>

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

-ManagementProtocol <ManagementProtocol>

Specifies a management protocol used to communicate with a device. The acceptable values for this parameter are:

- WSMAN

- IPMI

This cmdlet currently supports only devices that use the IPMI protocol.

-PassThru [<SwitchParameter>]

Passthru

-Port <UInt16>

Specifies a port on the remote computer to use for the management connection. If you do not specify a port, the cmdlet uses the following default ports:

- IPMI and WSMAN over HTTP. Port 623. - WSMAN over HTTPS. Port 664.

-SkipCACheck [<SwitchParameter>]

Indicates that the client connects by using HTTPS without validating that a trusted certification authority (CA) signed the server certificate. Do not specify this parameter if you specify a value of IPMI for the

ManagementProtocol parameter.

Do not specify this parameter unless you can establish trust in another way, such as if the remote computer is part of a network that is physically secure and isolated, or if the remote computer is a trusted host in a Windows Remote Management (WinRM) configuration.

-SkipCNCheck [<SwitchParameter>]

Indicates that the certificate common name (CN) of the server does not need to match the host name of the server. Do not specify this parameter if you specify a value of IPMI for the ManagementProtocol parameter.

Specify this parameter only for managing devices by using WSMAN over HTTPS. Be sure to specify this parameter only for trusted computers.

-SkipRevocationCheck [<SwitchParameter>]

Indicates that the cmdlet skips the revocation check of server certificates.

Be sure to specify this parameter only for trusted computers.

-TargetAddress <String>

Specifies the name or IP address of the remote hardware device.

-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.

-TimeoutSec <UInt32>

Specifies how long to wait, in seconds, for a response from the remote hardware device. After this period, the cmdlet abandons the connection attempt.

`-UseSSL [<SwitchParameter>]`

Indicates that the server connects to the target computer by using SSL. WSMAN encrypts all content transmitted over the network. Specify this parameter to use the additional protection of HTTPS instead of HTTP. If you specify this parameter and SSL is not available on the connection port, the command fails.

`-WhatIf [<SwitchParameter>]`

Shows what would happen if the cmdlet runs. The cmdlet is not run.

`<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: Configure network settings dynamically -----

```
PS C:\>Set-PcsvDeviceNetworkConfiguration -IPv4AddressOrigin DHCP
```

This command configures network settings for the PCSV device. The DHCP service updates the IP address, subnet mask and default gateway.

----- Example 2: Configure network settings statically -----

```
PS C:\>Set-PcsvDeviceNetworkConfiguration -IPv4AddressOrigin Static  
-IPv4Address "10.0.1.2" -IPv4DefaultGateway "10.0.0.1" -IPv4SubnetMask  
"255.255.0.0"
```

This command configures network settings for the PCSV device. The command

specifies the IP address, subnet mask, and default gateway for the device.

REMARKS

To see the examples, type: "get-help Set-PcsvDeviceNetworkConfiguration -examples".

For more information, type: "get-help Set-PcsvDeviceNetworkConfiguration -detailed".

For technical information, type: "get-help Set-PcsvDeviceNetworkConfiguration -full".

For online help, type: "get-help Set-PcsvDeviceNetworkConfiguration -online"