



Windows PowerShell Get-Help on Cmdlet 'Set-PcsvDeviceBootConfiguration'

PS:\>Get-HELP Set-PcsvDeviceBootConfiguration -Full

NAME

Set-PcsvDeviceBootConfiguration

SYNOPSIS

Modifies the boot configuration on the remote hardware device.

SYNTAX

Set-PcsvDeviceBootConfiguration [-TargetAddress] <String> [-Credential] <PSCredential> [-ManagementProtocol] {WSMan | IPMI} [[-OneTimeBootSource] <String>]

[[[-PersistentBootSource] <String[]>] [[-Port] <UInt16>] [-AsJob] [-Authentication {Default | Basic | Digest}] [-CimSession <CimSession[]>] [-Confirm] [-PassThru]

[-SkipCACheck] [-SkipCNCheck] [-SkipRevocationCheck] [-ThrottleLimit <Int32>] [-TimeoutSec <UInt32>] [-UseSSL] [-WhatIf] [<CommonParameters>]

Set-PcsvDeviceBootConfiguration [[[-OneTimeBootSource] <String>] [[-PersistentBootSource] <String[]>] [-AsJob] [-CimSession <CimSession[]>] [-Confirm] -InputObject

<CimInstance[]> [-PassThru] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]

Set-PcsvDeviceBootConfiguration [[[-OneTimeBootSource] <String>] [[-PersistentBootSource] <String[]>] [-AsJob] [-Confirm] [-PassThru] [-ThrottleLimit <Int32>] [-TimeoutSec <UInt32>] [-UseSSL] [-WhatIf] [<CommonParameters>]]

[-CimSession <CimSession[]>] [-Confirm] [-PassThru]
[-ThrottleLimit <Int32>] [-TimeoutSec <UInt32>] [-WhatIf] [<CommonParameters>]

DESCRIPTION

The Set-PcsvDeviceBootConfiguration cmdlet modifies the boot configuration for a remote hardware device. To retrieve the current boot configuration for a device, use the Get-PcsvDevice cmdlet.

The StructuredBootString property of the returned instance lists the valid boot sources, and the OneTimeBootSource property indicates whether one of the valid boot sources has already been configured to be the primary boot source for the next time the device undergoes a full restart.

PARAMETERS

-AsJob [<SwitchParameter>]

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

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-Authentication <Authentication>

Specifies an authentication method to use for devices managed by Web Services for Management (WS-Management). Do not use this parameter for devices managed by using Intelligent Platform Management Interface (IPMI). The acceptable values for this parameter are:

- Basic

- Digest

-- Default

If you specify Default for this parameter and a value of WSMAN for the ManagementProtocol parameter, the cmdlet uses Basic authentication.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	True (ByPropertyName)
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

-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

`-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``. This parameter specifies the credential for the remote hardware device.

Required?	true
Position?	2
Default value	None
Accept pipeline input?	True (ByPropertyName)
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

`-ManagementProtocol <ManagementProtocol>`

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

- WSMAN

- IPMI

Refer to your hardware documentation for supported management protocols.

Specify WSMAN for devices that represent information by using Systems Management Architecture for Server Hardware (SMASH), Desktop and mobile Architecture for System Hardware (DASH) or Physical Computer System View profiles.

Required?	true
Position?	3
Default value	None
Accept pipeline input?	True (ByPropertyName)
Accept wildcard characters?	false

`-OneTimeBootSource <String>`

Specifies a one-time boot source, in the format `CIM:<identifier>:<index>`. For example, you can specify a boot source as `CIM:Network:1`. The `StructuredBootString` property of the `PcsvDevice` instance contains a list of valid boot sources.

Required?	false
Position?	3001
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

`-PassThru [<SwitchParameter>]`

Returns an object representing the item with which you are working. By default, this cmdlet does not generate any output.

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

`-PersistentBootSource <String[]>`

Required?	false
Position?	3002

Default value None
Accept pipeline input? False
Accept wildcard characters? false

-Port <UInt16>

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

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

Required? false
Position? 4
Default value None
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-SkipCACheck [<SwitchParameter>]

Indicates that the client connects by using HTTPS without validating that a trusted 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.

Required? false
Position? named
Default value False
Accept pipeline input? True (ByPropertyName)
Accept wildcard characters? false

-SkipCNCheck [<SwitchParameter>]

Indicates that the certificate common name of the server does not need to match the hostname of the server. Do not

specify this parameter if you specify a value
of IPMI for the ManagementProtocol parameter.

Specify this parameter only for remote operations with WS-Management devices that use the HTTPS protocol. Use this parameter only for trusted computers.

Required?	false
Position?	named
Default value	False
Accept pipeline input?	True (ByPropertyName)
Accept wildcard characters?	false

`-SkipRevocationCheck [<SwitchParameter>]`

Indicates that the cmdlet skips the revocation check of server certificates. Do not specify this parameter if you specify a value of IPMI for the
ManagementProtocol parameter.

Be sure to specify this parameter only for trusted computers.

Required?	false
Position?	named
Default value	False
Accept pipeline input?	True (ByPropertyName)
Accept wildcard characters?	false

`-TargetAddress <String>`

Specifies the name or IP address of the management port on the remote hardware device. For server hardware, this is typically a dedicated Baseboard Management

Controller (BMC) IP address. For other devices, like network switches, this is the IP address of their management port. For desktop and mobile devices, the BMC
sometimes shares the same IP address as the computer.

Required?	true
-----------	------

Position? 1
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 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.

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

-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.

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

-UseSSL [<SwitchParameter>]

Indicates that the cmdlet connects to a remote device by using SSL. WS-Management 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.

Required? false
Position? named
Default value False
Accept pipeline input? True (ByPropertyName)
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>).

INPUTS

System.String

System.Management.Automation.PSCredential

Microsoft.PowerShell.Cmdletization.GeneratedTypes.PcsvDevice.ManagementProtocol

System.UInt16

Microsoft.PowerShell.Cmdletization.GeneratedTypes.PcsvDevice.Authentication

System.Management.Automation.SwitchParameter

System.UInt32

Microsoft.Management.Infrastructure.CimInstance[]

OUTPUTS

Microsoft.Management.Infrastructure.CimInstance

Microsoft.Management.Infrastructure.CimInstance#root/Microsoft/Windows/HardwareManagement/MSFT_PCSVDevice

The PCSV device is only returned as output if the PassThru parameter is specified.

NOTES

Example 1 Modify the device boot configuration to use PXE boot

```
PS C:\> $MyCred = Get-Credential
```

```
PS C:\> Set-PCSVDeviceBootConfiguration -TargetAddress 10.1.12.43 -ManagementProtocol WSMAN -Credential  
$MyCred -UseSSL -OneTimeBootSource "CIM:Network:1"
```

This example configures the boot source to use Pre-Boot Execution Environment (PXE) boot the next time the system boots.

The first command uses the `Get-Credential` cmdlet to get credentials, and stores the credentials in the variable named `$MyCred`. The cmdlet prompts you for a user name and password. For more information, type ``Get-Help Get-Credential``.

The second command modifies the device boot configuration for the target computer, by using the `OneTimeBootSource` parameter to specify the boot configuration.

Example 2: Modify the device boot configuration to use the DVD drive

```
PS C:\> $MyCred = Get-Credential
```

```
PS C:\> Get-PCSVDevice -TargetAddress 10.1.12.43 -ManagementProtocol WsMan -Credential $MyCred -UseSSL |  
Set-PcsvDeviceBootConfiguration -OneTimeBootSource  
"CIM:CD/DVD:1"
```

This example configures the boot source to use the DVD drive for the next time the system boots.

The first command uses the `Get-Credential` cmdlet to get credentials, and stores the credentials in the variable named `$MyCred`. The cmdlet prompts you for a user name and password. For more information, type ``Get-Help Get-Credential``.

The second command uses the `Get-PcsvDevice` cmdlet to retrieve the configuration for the target computer, and passes the output to the `Set-PcsvDeviceBootConfiguration` cmdlet by using the pipeline operator.

RELATED LINKS

Online

Version:

https://learn.microsoft.com/powershell/module/pcsvdevice/set-pcsvdevicebootconfiguration?view=windowsserver2022-ps&wt.mc_id=ps-gethelp

`Get-PcsvDevice`

