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Windows PowerShell Get-Help on Cmdlet 'Enable-PSRemoting'

PS:\>Get-HELF	Enable-PS	SRemoting	-Full
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NAME

**Enable-PSRemoting** 

#### **SYNOPSIS**

Configures the computer to receive remote commands.

## **SYNTAX**

Enable-PSRemoting [-Force] [-SkipNetworkProfileCheck] [-Confirm] [-Whatlf] [<CommonParameters>]

### **DESCRIPTION**

The `Enable-PSRemoting` cmdlet configures the computer to receive PowerShell remote commands that are sent by using the WS-Management technology.

PowerShell remoting is enabled by default on Windows Server 2012. You can use `Enable-PSRemoting` to enable PowerShell remoting on other supported versions of Windows

and to re-enable remoting on Windows Server 2012 if it becomes disabled.

You have to run this command only one time on each computer that will receive commands. You do not have Plaguariton

computers that only send commands. Because the

configuration starts listeners, it is prudent to run it only where it is needed.

Beginning in PowerShell 3.0, the `Enable-PSRemoting` cmdlet can enable PowerShell remoting on client versions of Windows when the computer is on a public network. For

more information, see the description of the SkipNetworkProfileCheck parameter.

The `Enable-PSRemoting` cmdlet performs the following operations:

- Runs the Set-WSManQuickConfig (../Microsoft.WSMan.Management/Set-WSManQuickConfig.md)cmdlet, which performs the following tasks: - Starts the WinRM service. -

Sets the startup type on the WinRM service to Automatic. - Creates a listener to accept requests on any IP address. - Enables a firewall exception for

WS-Management communications. - Registers the Microsoft.PowerShell and Microsoft.PowerShell.Workflow session configurations, if it they are not already

registered. - Registers the Microsoft.PowerShell32 session configuration on 64-bit computers, if it is not already registered. - Enables all session

configurations. - Changes the security descriptor of all session configurations to allow remote access. - Restarts the WinRM service to make the preceding changes effective.

To run this cmdlet on the Windows platform, start PowerShell by using the Run as administrator option. This does not apply to Linux or MacOS versions of PowerShell.

> [!CAUTION] > On systems that have both PowerShell 3.0 and PowerShell 2.0, do not use > PowerShell 2.0 to run the `Enable-PSRemoting` and `Disable-PSRemoting`

cmdlets. The commands > might appear to succeed, but the remoting is not configured correctly. Remote commands and later > attempts to enable and disable remoting,

are likely to fail.

### **PARAMETERS**

Forces the command to run without asking for user confirmation.

Required?

false

Position?

named

Default value

False

Accept pipeline input?

False

Accept wildcard characters? false

-SkipNetworkProfileCheck <System.Management.Automation.SwitchParameter>

Indicates that this cmdlet enables remoting on client versions of the Windows operating system when the computer is on a public network. This parameter enables a

firewall rule for public networks that allows remote access only from computers in the same local subnet.

This parameter does not affect server versions of the Windows operating system, which, by default, have a local subnet firewall rule for public networks. If the

local subnet firewall rule is disabled on a server version, `Enable-PSRemoting` re-enables it, regardless of the value of this parameter.

To remove the local subnet restriction and enable remote access from all locations on public networks, use the `Set-NetFirewallRule` cmdlet in the NetSecurity

module.

This parameter was introduced in PowerShell 3.0.

Required?

false

Position?

named

Default value

False

Accept pipeline input?

False

Accept wildcard characters? false

-Confirm <System.Management.Automation.SwitchParameter>

Prompts you for confirmation before running the cmdlet.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

# -WhatIf <System.Management.Automation.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**

### None

You can't pipe objects to this cmdlet.

## **OUTPUTS**

# System.String

This cmdlet returns strings that describe its results.

In PowerShell 3.0, `Enable-PSRemoting` creates the following firewall exceptions for WS-Management communications.

On server versions of the Windows operating system, `Enable-PSRemoting` creates firewall rules for private and domain networks that allow remote access, and

creates a firewall rule for public networks that allows remote access only from computers in the same local subnet.

On client versions of the Windows operating system, `Enable-PSRemoting` in PowerShell 3.0 creates firewall rules for private and domain networks that allow

unrestricted remote access. To create a firewall rule for public networks that allows remote access from the same local subnet, use the SkipNetworkProfileCheck

parameter.

On client or server versions of the Windows operating system, to create a firewall rule for public networks that removes the local subnet restriction and allows

remote access , use the `Set-NetFirewallRule` cmdlet in the NetSecurity module to run the following command: `Set-NetFirewallRule -Name "WINRM-HTTP-In-TCP-PUBLIC"

-RemoteAddress Any`

In PowerShell 2.0, `Enable-PSRemoting` creates the following firewall exceptions for WS-Management communications.

On server versions of the Windows operating system, it creates firewall rules for all networks that allow remote access.

On client versions of the Windows operating system, `Enable-PSRemoting` in PowerShell 2.0 creates a firewall exception only for domain and private network

locations. To minimize security risks, `Enable-PSRemoting` does not create a firewall rule for public networks on client versions of Windows. When the current

network location is public, `Enable-PSRemoting` returns the following message: Unable to check the status of the firewall.

Starting in PowerShell 3.0, `Enable-PSRemoting` enables all session configurations by setting the value of the second enables all session configurations by setting the value of the second enables all session configurations by setting the value of the second enables all session configurations by setting the value of the second enables all session configurations by setting the value of the second enables all session configurations by setting the value of the second enables all session configurations by setting the value of the second enables all session configurations by setting the value of the second enables all session configurations by setting the value of the second enables all session enables enab

property of all session configurations to `\$True`. In PowerShell 2.0, `Enable-PSRemoting` removes the Deny\_All setting from the security descriptor of session configurations. In PowerShell 3.0, `Enable-PSRemoting` removes the Deny\_All and Network\_Deny\_All settings. This provides remote access to session configurations that were reserved for local use. -- Example 1: Configure a computer to receive remote commands --**Enable-PSRemoting** Example 2: Configure a computer to receive remote commands without a confirmation prompt **Enable-PSRemoting -Force** ----- Example 3: Allow remote access on clients ------Get-NetFirewallRule -Name 'WINRM\*' | Select-Object -Property Name Name WINRM-HTTP-In-TCP-NoScope WINRM-HTTP-In-TCP WINRM-HTTP-Compat-In-TCP-NoScope WINRM-HTTP-Compat-In-TCP Enable-PSRemoting -SkipNetworkProfileCheck -Force Set-NetFirewallRule -Name 'WINRM-HTTP-In-TCP' -RemoteAddress Any

By default, `Enable-PSRemoting` creates network rules that allow remote access from private and domain network rules that allow remote access from private and domain network rules that allow remote access from private and domain network rules that allow remote access from private and domain network rules that allow remote access from private and domain network rules that allow remote access from private and domain network rules that allow remote access from private and domain network rules that allow remote access from private and domain network rules that allow remote access from private and domain network rules that allow remote access from private and domain network rules access from the private access

command uses the SkipNetworkProfileCheck

parameter to allow remote access from public networks in the same local subnet. The command specifies the Force parameter to suppress confirmation messages.

The SkipNetworkProfileCheck parameter does not affect server versions of the Windows operating system, which allow remote access from public networks in the same

local subnet by default.

The `Set-NetFirewallRule` cmdlet in the NetSecurity module adds a firewall rule that allows remote access from public networks from any remote location. This includes

locations in different subnets.

> [!NOTE] > The name of the firewall rule can be different depending on the version of Windows. Use the > `Get-NetFirewallRule` cmdlet to list the names of the rules on your system.

## **RELATED LINKS**

Online Version:

https://learn.microsoft.com/powershell/module/microsoft.powershell.core/enable-psremoting?view=powershell-5.1&WT.mc\_i d=ps-gethelp

Disable-PSSessionConfiguration

Enable-PSSessionConfiguration

Get-PSSessionConfiguration

Register-PSSessionConfiguration

Set-PSSessionConfiguration

Disable-PSRemoting

WSMan Provider

about\_Remote

about\_Session\_Configurations