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# Windows PowerShell Get-Help on Cmdlet 'Get-NetFirewallSetting'

PS:\>Get-HELP Get-NetFirewallSetting -Full

NAME

Get-NetFirewallSetting

#### **SYNOPSIS**

Retrieves the global firewall settings of the target computer.

## **SYNTAX**

Get-NetFirewallSetting [-All] [-AsJob] [-CimSession <CimSession[]>] [-GPOSession <String>] [-PolicyStore <String>] [-ThrottleLimit <Int32>] [<CommonParameters>]

#### **DESCRIPTION**

The Get-NetFirewallSetting cmdlet retrieves the global firewall settings of the target computer. The NetFirewallSetting object specifies properties that apply to the

firewall and IPsec settings, no matter which network profile is currently in use. The global configurations include viewing the active profile, exemptions, specified

certification validation levels, and user and computer authorization lists.

## **PARAMETERS**

#### -All [<SwitchParameter>]

Indicates that all of the firewall settings within the specified policy store are retrieved.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

## -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

### -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)

[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

or

-GPOSession <String>

Specifies the network GPO from which to retrieve the rules to be retrieved. This parameter is used in the same way as the PolicyStore parameter. When modifying

GPOs in Windows PowerShellr, each change to a GPO requires the entire GPO to be loaded, modified, and saved back. On a busy Domain Controller (DC), this can be a

slow and resource-heavy operation. A GPO Session loads a domain GPO onto the local computer and makes all changes in a batch, before saving it back. This reduces

the load on the DC and speeds up the Windows PowerShell cmdlets. To load a GPO Session, use the Open-NetGPO cmdlet. To save a GPO Session, use the Save-NetGPO

cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

### -PolicyStore <String>

Specifies the policy store from which to retrieve the rules to be retrieved. A policy store is a container for firewall and IPsec policy. The acceptable values

for this parameter are:

GPOs can be specified as follows. -----

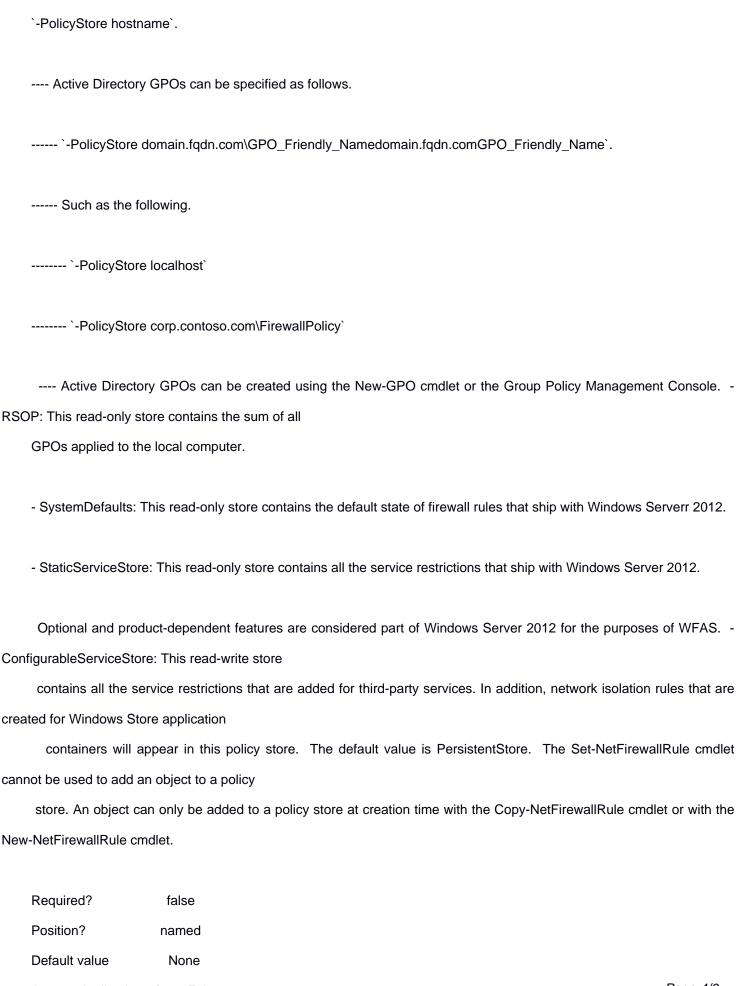
- PersistentStore: Sometimes called static rules, this store contains the persistent policy for the local computer. This policy is not from GPOs, and has been

created manually or programmatically (during application installation) on the computer. Rules created in this store are attached to the ActiveStore and activated

on the computer immediately. - ActiveStore: This store contains the currently active policy, which is the sum of all policy stores that apply to the computer.

This is the resultant set of policy (RSOP) for the local computer (the sum of all GPOs that apply to the computer), and the local stores (the PersistentStore, the

static Windows service hardening (WSH), and the configurable WSH). ---- GPOs are also policy stores. Computer Page 3/6



Accept pipeline input? False Page 4/6

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 PowerShellr 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

#### <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#root\StandardCimv2\NetFirewallSetting

The `Microsoft.Management.Infrastructure.CimInstance` object is a wrapper class that displays Windows Management Instrumentation (WMI) objects. The path after the

pound sign (`#`) provides the namespace and class name for the underlying WMI object.

EXAMPLE 1		
PS C:\>Get-NetFirewallSetting		
This example gets the global firewall settings on the local computer.		
PS C:\>Get-NetFirewallSetting -PolicyStore corp.contoso.com/gpo_nam	ne   Set-NetFirewallSetti	ng -Exemptions
This example modifies the global firewall settings of a particular GPO policy stote policy store retrieves the persistent store.	ore. Running this cmdlet w	vithout specifying
RELATED LINKS	Online	Version:
https://learn.microsoft.com/powershell/module/netsecurity/get-netfirewallsetting?vigethelp		
Copy-NetFirewallRule		
New-NetFirewallRule		
Open-NetGpo		
Save-NetGpo		
Set-NetFirewallSetting		