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PowerShell

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PowerShell Get-Help on command 'Get-NetFirewallSetting'

PS C:\Users\wahid> Get-Help Get-NetFirewallSetting

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.

To view enforced settings, view the firewall settings from the ActiveStore policy store source.

PARAMETERS

-All [<SwitchParameter>]

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

-AsJob [<SwitchParameter>]

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

-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.

-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 PowerShell, 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.

-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:

- 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 GPOs can be specified as follows. -----
`-PolicyStore hostname`.

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

----- `-PolicyStore
domain.fqdn.com\GPO_Friendly_Namedomain.fqdn.comGPO_Friendly_Name`.

----- Such as the following.

----- `-PolicyStore localhost`

----- `-PolicyStore corp.contoso.com\FirewallPolicy`

---- Active Directory GPOs can be created using the New-GPO cmdlet or the Group Policy Management Console. - RSOP: This read-only store contains the sum of all GPOs applied to the local computer.

- SystemDefaults: This read-only store contains the default state of

firewall rules that ship with Windows Server 2012.

- `StaticServiceStore`: This read-only store contains all the service restrictions that ship with Windows Server 2012.

Optional and product-dependent features are considered part of Windows Server 2012 for the purposes of WFAS. - `ConfigurableServiceStore`: This read-write store contains all the service restrictions that are added for third-party services. In addition, network isolation rules that are created for Windows Store application containers will appear in this policy store. The default value is `PersistentStore`. The `Set-NetFirewallRule` cmdlet cannot be used to add an object to a policy store. An object can only be added to a policy store at creation time with the `Copy-NetFirewallRule` cmdlet or with the `New-NetFirewallRule` cmdlet.

-`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.

<`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 -----

```
PS C:\>Get-NetFirewallSetting
```

This example gets the global firewall settings on the local computer.

----- EXAMPLE 2 -----

```
PS C:\>Get-NetFirewallSetting -PolicyStore corp.contoso.com/gpo_name |  
Set-NetFirewallSetting -Exemptions RouterDiscovery
```

This example modifies the global firewall settings of a particular GPO policy store. Running this cmdlet without specifying the policy store retrieves the persistent store.

REMARKS

To see the examples, type: "get-help Get-NetFirewallSetting -examples".

For more information, type: "get-help Get-NetFirewallSetting -detailed".

For technical information, type: "get-help Get-NetFirewallSetting -full".

For online help, type: "get-help Get-NetFirewallSetting -online"