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PowerShell Get-Help on command 'Get-NetFirewallInterfaceFilter'

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

NAME

Get-NetFirewallInterfaceFilter

SYNOPSIS

Retrieves interface filter objects from the target computer.

SYNTAX

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

Get-NetFirewallInterfaceFilter [-AsJob] -AssociatedNetFirewallRule <CimInstance> [-CimSession <CimSession[]>] [-GPOSession <String>] [-PolicyStore <String>] [-ThrottleLimit <Int32>] [<CommonParameters>]

Get-NetFirewallInterfaceFilter [-AsJob] -AssociatedNetIPsecRule <CimInstance> [-CimSession <CimSession[]>] [-GPOSession <String>] [-PolicyStore <String>] [-ThrottleLimit <Int32>] [<CommonParameters>]

DESCRIPTION

The Get-NetFirewallInterfaceFilter cmdlet returns interface filter objects associated with the input rules.

Interface filter objects represent the interfaces associated with firewall and IPsec rules. The InterfaceAlias parameter of a single rule is represented in a separate NetFirewallInterfaceFilter object. The filter to rule relationship is always one-to-one and is managed automatically. Rule parameters associated with filters can only be queried using filter objects.

This cmdlet displays the interface aliases associated with firewall and IPsec rules. This allows for rule querying based on the InterfaceAlias parameter; this cmdlet returns filter objects that may be further queried with the Where-Object (https://go.microsoft.com/fwlink/?LinkID=113423)cmdlet. The resultant filters are passed to Get-NetFirewallRule or Get-NetIPsecRule cmdlet to return the rules queried by interface.

To modify the interface conditions, two methods can be used starting with the interface filters returned by this cmdlet and optional additional querying.

The array of NetFirewallInterfaceFilter objects can be piped to Get-NetFirewallRule or Get-NetIPsecRule cmdlet, which returns the rules associated with the filters. These rules are then piped to Set-NetFirewallRule or Set-NetIPsecRule cmdlet where the interface properties can be configured.

Alternatively, piping the array of NetFirewallInterfaceFilter objects directly to the Set-NetFirewallInterfaceFilter cmdlet allows the Program and Package parameters of the rules to be modified.

PARAMETERS

-All [<SwitchParameter>]

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.

-AssociatedNetFirewallRule <CimInstance>

Gets the interface filter object associated with the specified firewall rule to be retrieved. This parameter represents a firewall rule, which defines how traffic is filtered by the firewall. See the New-NetFirewallRule cmdlet for more information.

-AssociatedNetIPsecRule < CimInstance>

Gets the address filter objects that are associated, via the pipeline, with the input IPsec rule to be retrieved. A NetIPsecRule object represents an IPsec rule, which determines IPsec behavior. An IPsec rule can be associated with Phase1AuthSet, Phase2AuthSet, and NetIPsecQuickMode cryptographic sets. See the New-NetIPsecMainModeRule cmdlet for more information.

-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 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.

-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. ------

---- 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 Serverr 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 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.

<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-NetFirewallRule -PolicyStore ActiveStore
This cmdlet shows the same information in a dynamically-sized, formatted table.
PS C:\>Get-NetFirewallRule -PolicyStore ActiveStore Format-Table
This example retrieves the interface aliases associated with all of the rules in the active store EXAMPLE 2
PS C:\>Get-NetFirewallRule -DisplayName "Contoso Messenger" Get-NetFirewallInterfaceFilter
This example gets the interface aliases associated with a particular firewall rule EXAMPLE 3
PS C:\>Get-NetFirewallRule -DisplayName "Contoso Messenger" Get-NetFirewallInterfaceFilter Set-NetFirewallInterfaceFilter -InterfaceAlias Any
This cmdlet shows the same information in a dynamically-sized, formatted table. PS C:\>Set-NetFirewallRule -DisplayName "Contoso Messenger" -InterfaceAlias Any
This example modifies the interface alias field of a particular firewall rule.

PS C:\>Get-NetIPsecRule -Group "Wired Rules" | Get-NetFirewallInterfaceFilter | Where-Object -FilterScript { \$_.InterfaceAlias -Eq "Wired2" } |
Set-NetFirewallInterfaceFilter -InterfaceAlias Wired3

This example modifies a particular interface alias associated with all of the firewall rules in a specified group.

REMARKS

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

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

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

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