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PowerShell Get-Help on command 'Get-NetFirewallInterfaceTypeFilter'

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

NAME

Get-NetFirewallInterfaceTypeFilter

SYNOPSIS

Retrieves interface type filter objects from the target computer.

SYNTAX

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

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

Get-NetFirewallInterfaceTypeFilter [-AsJob] -AssociatedNetIPsecRule <CimInstance> [-CimSession <CimSession[]>] [-GPOSession <String>] [-PolicyStore <String>] [-ThrottleLimit <Int32>] [<CommonParameters>] [-GPOSession <String>] [-InterfaceType {Any | Wired | Wireless | RemoteAccess}] [-PolicyStore <String>] [-ThrottleLimit <Int32>] [<CommonParameters>]

DESCRIPTION

The Get-NetFirewallInterfaceTypeFilter cmdlet returns the interface type filter objects with the input rules.

Interface type filter objects represent the interface types associated with firewall and IPsec rules. The InterfaceType parameter of a single rule is represented in a separate NetFirewallInterfaceTypeFilter 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 types associated with firewall and IPsec rules. This allows for rule querying based on the InterfaceType parameter value; this cmdlet returns filter objects that may be further queried with the Where-Object (https://go.microsoft.com/fwlink/?LinkID=113423)cmdlet. This cmdlet also allows the interface type filters to be obtained by InterfaceType query. The resultant filters are passed into the Get-NetFirewallRule or Get-NetIPsecRule cmdlet to return the rules queried by interface type.

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

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

Alternatively, piping the array of NetFirewallInterfaceTypeFilter objects directly into the Set-NetFirewallInterfaceTypeFilter cmdlet allows the InterfaceType parameter of the rules to be modified.

PARAMETERS

-All [<SwitchParameter>]

Indicates that all of the interface type filters 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.

-AssociatedNetFirewallRule <CimInstance>

Gets the interface type 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.

-InterfaceType <InterfaceType[]>

Specifies that only network connections made through the indicated interface types are subject to the requirements of this rule. This parameter specifies different authentication requirements for each of the three main network types. The acceptable values for this parameter are: Any, Wired, Wireless, or RemoteAccess. The default value is Any. Querying for rules with this parameter can only be performed using filter objects.

-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-NetFirewallInterfaceTypeFilter -PolicyStore ActiveStore

This cmdlet shows the same information in a dynamically-sized, formatted table. PS C:\>Get-NetFirewallInterfaceTypeFilter -PolicyStore ActiveStore | Format-Table

This example retrieves the interface types associated with all the rules in the active store. Running this cmdlet without specifying the policy store retrieves the persistent store.

----- Example 2 -----

PS C:\>Get-NetFirewallRule -DisplayName "Contoso Messenger" | Get-NetFirewallInterfaceTypeFilter

This example gets the interface aliases associated with a particular firewall rule.

----- Example 3 -----

PS C:\>Get-FirewallRule -DisplayName "Contoso Messenger" | Get-NetFirewallInterfaceTypeFilter | Set-NetFirewallInterfaceTypeFilter -InterfaceType Any

This cmdlet is an alternate method of performing the task.

PS C:\>Set-NetFirewallRule -DisplayName "Contoso Messenger" -InterfaceType Any

This example modifies the interface type field of a particular firewall rule.

----- Example 4 -----

PS C:\>Get-NetFirewallInterfaceTypeFilter -InterfaceType Wired | Set-NetFirewallInterfaceTypeFilter -InterfaceType Any

This example modifies the interface type for all of the rules previously associated with the wired interface type.

----- Example 5 -----

PS C:\>Get-NetIPsecRule -Group DirectAccess |

Get-NetFirewallInterfaceTypeFilter | Where-Object -Property { \$_.InterfaceType -Eq "Wired" } | Set-NetFirewallInterfaceTypeFilter -InterfaceType RemoteAccess

This example modifies the interface type associated with all of the IPsec rules in a specified group.

REMARKS

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

-examples".

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

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

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