We use optional cookies to (i) improve your experience on our websites, such as through social media connections, and to display personalized advertising based on your online activity. If you reject optional cookies, only cookies necessary to provide you the services will be used. You may change your selection by clicking "Manage Cookies" at the bottom of the page. Privacy Statement Third-Party Cookies

Accept

Reject

Manage cookies

Microsoft Ignite

Nov 19-22, 2024

Register now >



Show-NetFirewallRule

Reference \circlearrowleft Feedback

Module: NetSecurity

In this article

Syntax

Description

Examples

Parameters

Show 3 more

Displays all of the existing firewall rules and associated objects in a fully expanded view.

Syntax

```
Show-NetFirewallRule
    [-PolicyStore <String>]
    [-GPOSession <String>]
    [-CimSession <CimSession[]>]
    [-ThrottleLimit <Int32>]
    [-AsJob]
    [<CommonParameters>]
```

Description

The **Show-NetFirewallRule** cmdlet displays each of the firewall rules in the policy store, along with the associated objects, in a clear and formatted list.

The ActiveStore is a collection of all of the policy stores that apply to the computer, so the majority of rules output from the following cmdlet are read-only when run on a client computer.

• Show-NetFirewallRule -PolicyStore ActiveStore

Examples

EXAMPLE 1

PS C:\>Show-NetFirewallRule -PolicyStore ActiveStore

This example displays all of the firewall rules currently in the active policy, which is the collection of all of the policy stores that apply to the computer.

Parameters

-AsJob

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

Expand table

Туре:	SwitchParameter
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-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 or Get-CimSession cmdlet. The default is the current session on the local computer.

Expand table

Туре:	CimSession[]
Aliases:	Session
Position:	Named

Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-GPOSession

Specifies the network GPO from which to retrieve the rules to be displayed. 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 the domain GPO 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.

Expand table

Туре:	String
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-PolicyStore

Specifies the policy store from which to retrieve the rules to be displayed. 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_Fr

```
iendly_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 New-NetFirewallRule or with this cmdlet.

Expand table

Туре:	String
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-ThrottleLimit

Specifies the maximum number of concurrent operations that can be established to run the cmdlet. If this parameter is omitted or a value of @ 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.

Expand table

Туре:	Int32
Position:	Named
Default value:	None

Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

Inputs

None

Outputs

CimInstance[]

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.

Related Links

- Copy-NetFirewallRule
- Disable-NetFirewallRule
- Enable-NetFirewallRule
- Get-NetFirewallRule
- New-NetFirewallRule
- Open-NetGPO
- Remove-NetFirewallRule
- Rename-NetFirewallRule
- Save-NetGPO
- Set-NetFirewallRule

Feedback

Provide product feedback ☑

♦ English (United States)
✓ Your Privacy Choices
★ Theme ✓

Manage cookies Previous Versions Blog \square Contribute Privacy \square Terms of Use Trademarks \square

© Microsoft 2024