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Windows PowerShell Get-Help on Cmdlet 'Show-NetFirewallRule'

NAME

Show-NetFirewallRule

SYNOPSIS

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

SYNTAX

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

PARAMETERS

-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)

or

[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

-GPOSession <String>

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 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 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

Required?	false
Position?	named
Default value	None
Accept pipeline in	nput? False
Accept wildcard of	characters? false
-PolicyStore <string< th=""><th>j></th></string<>	j>
Specifies the pol	icy store from which to retrieve the rules to be displayed. A policy store is a container for firewall and
IPsec policy. The acc	eptable values
for this paramete	r are:
- PersistentStor	e: Sometimes called static rules, this store contains the persistent policy for the local computer. This
policy is not from GPC	os, and has been
created manuall	y or programmatically (during application installation) on the computer. Rules created in this store are
attached to the Actives	Store and activated
on the compute	er immediately ActiveStore: This store contains the currently active policy, which is the sum of al
policy stores that apply	y to the computer.
This is the result	ant set of policy (RSOP) for the local computer (the sum of all GPOs that apply to the computer), and
the local stores (the Po	ersistentStore, the
static Windows	service hardening (WSH), and the configurable WSH) GPOs are also policy stores. Computer
GPOs can be specified	d as follows
`-PolicyStore hos	tname`.
Active Directo	ory GPOs can be specified as follows.
`-PolicyStore	e domain.fqdn.com\GPO_Friendly_Namedomain.fqdn.comGPO_Friendly_Name`.
Such as the	following.
`-PolicySto	ore localhost`

Save-NetGPO cmdlet.

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

Required? false

Position? named

Default value None

Accept pipeline input? False

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 Page 4/6

Default value	None	
Accept pipeline input?	False	
Accept wildcard charac	ters? false	
<commonparameters></commonparameters>		
This cmdlet supports the common parameters: Verbose, Debug,		
ErrorAction, ErrorVariable, WarningAction, WarningVariable,		
OutBuffer, PipelineVaria	able, and OutVariable. For more information, see	
about_CommonParame	eters (https:/go.microsoft.com/fwlink/?LinkID=113216).	
INPUTS		
None		
OUTPUTS		
Microsoft.Management.Inf	frastructure.CimInstance#root\StandardCimv2\MSFT_NetConSecRule[]	
The `Microsoft.Manage	ement.Infrastructure.CimInstance` object is a wrapper class that displays Windows Management	
Instrumentation (WMI) object	ets. The path after the	
pound sign (`#`) provide	es the namespace and class name for the underlying WMI object.	
NOTES		
EXAN	MPLE 1	
D0.01.01.11.55		
PS C:\>Show-NetFirewall	Rule -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.

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RELATED LINKS

Online Version:

 $https://learn.microsoft.com/powershell/module/netsecurity/show-netfirewallrule?view=windowsserver2022-ps\&wt.mc_id=ps-gethelp$

Copy-NetFirewallRule

Disable-NetFirewallRule

Enable-NetFirewallRule

Get-NetFirewallRule

New-NetFirewallRule

Open-NetGPO

Remove-NetFirewallRule

Rename-NetFirewallRule

Save-NetGPO

Set-NetFirewallRule