



### ***Windows PowerShell Get-Help on Cmdlet 'Save-NetGPO'***

***PS:\>Get-HELP Save-NetGPO -Full***

#### **NAME**

Save-NetGPO

#### **SYNOPSIS**

Applies the modified cached local Group Policy Object (GPO) to the actual GPO.

#### **SYNTAX**

Save-NetGPO [-GPOSession] <String> [-AsJob] [-CimSession <CimSession[]>] [-ThrottleLimit <Int32>]  
[<CommonParameters>]

#### **DESCRIPTION**

The Save-NetGPO cmdlet saves the changes made to the local cached group policy object. The cached Group Policy Object (GPO) copy is created with the Open-NetGPO cmdlet.

Individual operations on group policy objects require a round-trip to load the policy store. When the policy store is a GPO on a busy domain controller, an

administrator will want to open the GPO, do the work on it, and then save it back, with an in-memory copy. Page 1/5

Modifications are performed through the use of the GPOSession parameter.

This cmdlet does not batch individual changes, it loads and saves the entire GPO at once. If any other changes were made by another administrator, or in a different

Windows PowerShell session, saving the GPO would overwrite those changes.

## 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 GPO session to be saved. 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 this cmdlet.

Required?	true
Position?	0
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 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.

Required?	false
Position?	named
Default value	None
Accept pipeline input?	False
Accept wildcard characters?	false

#### **<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>).

## INPUTS

Microsoft.Management.Infrastructure.CimInstance#root\StandardCimv2\GPoSession

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.

## OUTPUTS

None

## NOTES

----- EXAMPLE 1 -----

```
PS C:\>$gpoSession = Open-NetGPO -PolicyStore castle.contoso.com\Win8ClientFirewallPolicy
```

```
PS C:\>Remove-NetFirewallRule -Name BlockIMAccess -GPoSession $gpoSession
```

```
PS C:\>New-NetFirewallRule -Name LimitIMAccess -DisplayName "Contoso Messenger" -Program  
"%ProgramFiles(X86)%\Contoso Messenger\cmmsg.exe" -Action Block -GPoSession  
$gpoSession
```

```
PS C:\>Save-NetGPO -GPOSession $gpoSession
```

This example replaces one rule in a domain GPO with another using a cached copy of the GPO.

## RELATED LINKS

Online

Version:

[https://learn.microsoft.com/powershell/module/netsecurity/save-netgpo?view=windowsserver2022-ps&wt.mc\\_id=ps-gethelp](https://learn.microsoft.com/powershell/module/netsecurity/save-netgpo?view=windowsserver2022-ps&wt.mc_id=ps-gethelp)

New-NetFirewallRule

Open-NetGPO

Remove-NetFirewallRule