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Windows PowerShell Get-Help on Cmdlet 'Set-NetlPsecQuickModeCryptoSet'

PS:\>Get-HELP Set-NetIPsecQuickModeCryptoSet -Full

NAME

Set-NetIPsecQuickModeCryptoSet

SYNOPSIS

Modifies existing quick mode cryptographic sets.

SYNTAX

Set-NetlPsecQuickModeCryptoSet [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-Description <String>]
-DisplayGroup <String[]> [-GPOSession <String>]

[-NewDisplayName <String>] [-PassThru] [-PerfectForwardSecrecyGroup {None | DH1 | DH2 | DH14 | DH19 | DH20 |

[-Proposal <CimInstance[]>] [-ThrottleLimit <Int32>] [-Whatlf] [<CommonParameters>]

Set-NetIPsecQuickModeCryptoSet [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-Description <String>] -DisplayName <String[]> [-GPOSession <String>]

[-NewDisplayName <String>] [-PassThru] [-PerfectForwardSecrecyGroup {None | DH1 | DH2 | DH14 | DH19 | DH20 |

DH24 | SameAsMainMode}] [-PolicyStore <String>]

DH24 | SameAsMainMode}] [-PolicyStore <String>]

[-Proposal <CimInstance[]>] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]

Set-NetIPsecQuickModeCryptoSet [-Name] <String[]> [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-Description <String>] [-GPOSession <String>] [-NewDisplayName

<String>] [-PassThru] [-PerfectForwardSecrecyGroup {None | DH1 | DH2 | DH14 | DH19 | DH20 | DH24 | SameAsMainMode}] [-PolicyStore <String>] [-Proposal

<CimInstance[]>] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]

Set-NetlPsecQuickModeCryptoSet [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-Description <String>] [-GPOSession <String>] -Group <String[]> [-NewDisplayName

<String>] [-PassThru] [-PerfectForwardSecrecyGroup {None | DH1 | DH2 | DH14 | DH19 | DH20 | DH24 | SameAsMainMode}] [-PolicyStore <String>] [-Proposal

<CimInstance[]>] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]

Set-NetIPsecQuickModeCryptoSet [-AsJob] [-CimSession < CimSession[]>] [-Confirm] [-Description < String>] -InputObject < CimInstance[]> [-NewDisplayName < String>]

[-PassThru] [-PerfectForwardSecrecyGroup {None | DH1 | DH2 | DH14 | DH19 | DH20 | DH24 | SameAsMainMode}] [-Proposal <CimInstance[]>] [-ThrottleLimit <Int32>]

[-WhatIf] [<CommonParameters>]

DESCRIPTION

The Set-NetIPsecQuickModeCryptoSet cmdlet modifies cryptographic set properties of existing main mode cryptographic sets.

This cmdlet gets one or more quick mode cryptographic sets to be modified with the Name parameter (default), DisplayName parameter, or by association using the

DisplayGroup or Group parameter. The sets cannot be queried by property in this cmdlet. The querying can be done by the Get-NetIPsecQuickModeCryptoSet cmdlet returns

the queries and pipes the sets into this cmdlet. The remaining parameters specify the properties of the set to be modified. When a group is specified, all of the sets

associated with the group receive the same modifications. The rule parameters modified using the dot-notation are committed with this cmdlet.

To move a set to a new GPO, copy the existing set by running the Copy-NetIPsecQuickModeCryptoSet cmd@9@ith1the

NewPolicyStore parameter, then remove the old set by

running the Remove-NetIPsecQuickModeCryptoSet cmdlet.

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

-Confirm [<SwitchParameter>]

Prompts you for confirmation before running the cmdlet.

Required? false

Position? named

Default value False Page 3/12

Accept pipeline input? False

Accept wildcard characters? false

-Description <String>

Specifies that matching quick mode cryptographic sets of the indicated description are modified. Wildcard characters are accepted. This parameter provides

information about the quick mode cryptographic sets. This parameter specifies a localized, user-facing description of the object.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-DisplayGroup <String[]>

Specifies that only matching quick mode cryptographic sets of the indicated group association are modified. Wildcard characters are accepted. The Group parameter

specifies the source string for this parameter. If the value for this parameter is a localizable string, then the Group parameter contains an indirect string.

Rule groups can be used to organize rules by influence and allows batch rule modifications. Using this cmdlet, if the group name is specified for a set of rules,

then all of the rules in that group receive the same set of modifications. It is good practice to specify the Group parameter with a universal and world-ready

indirect @FirewallAPI name. This parameter cannot be specified upon object creation using the New-NetIPsecQuickModeCryptoSet cmdlet, but can be modified using

dot-notation and this cmdlet.

Required? true

Position? named

Default value None

Accept pipeline input? False

-DisplayName <String[]>

Specifies that only matching quick mode cryptographic sets of the indicated display name are modified. Wildcard

characters are accepted. This parameter specifies

the localized, user-facing name of the quick mode cryptographic set being created. When creating a set this parameter

is required. This parameter value is

locale-dependent. If the object is not modified, this parameter value may change in certain circumstances. When

writing scripts in multi-lingual environments, the

Name parameter should be used instead, where the default value is a randomly assigned value. This parameter value

cannot be All.

Required?

true

Position?

named

Default value

None

Accept pipeline input?

False

Accept wildcard characters? false

-GPOSession <String>

Specifies the network GPO from which to retrieve the sets to be modified. This parameter is used in the same way as

the PolicyStore parameter. When modifying

Group Policy Objects (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.

Required?

false

Position?

named

Default value

None

Accept pipeline input?

False

Accept wildcard characters? false

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-Group <String[]>

Specifies that only matching quick mode cryptographic sets of the indicated group association are modified. Wildcard characters are accepted. This parameter

specifies the source string for the DisplayGroup parameter. If the DisplayGroup parameter value is a localizable string, then this parameter contains an indirect

string. Rule groups organizes rules by influence and allows batch rule modifications. Using this cmdlet, if the group name is specified for a set of rules, then

all of the rules in that group receive the same set of modifications. It is good practice to specify this parameter with a universal and world-ready indirect

@FirewallAPI name. The DisplayGroup parameter cannot be specified upon object creation using the New-NetIPsecQuickModeCryptoSet cmdlet, but can be modified using

dot-notation and this cmdlet.

Required? true

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-InputObject <CimInstance[]>

Specifies the input object that is used in a pipeline command.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-Name <String[]>

Specifies that only matching quick mode cryptographic sets of the indicated name are modified. Wildcard characters are accepted. This parameter acts just like a

file name, in that only one rule with a given name may exist in a policy store at a time. During group policy page of a policy and a sime.

and policy merge, rules that have the

same name but come from multiple stores being merged, will overwrite one another so that only one exists. This overwriting behavior is desirable if the rules

serve the same purpose. For instance, all of the firewall rules have specific names, so if an administrator can copy these rules to a GPO, and the rules will

override the local versions on a local computer. Since GPOs can have precedence, if an administrator that gives a rule with a different or more specific rule the

same name in a higher-precedence GPO, then it overrides other rules that exist. The default value is a randomly assigned value. When the defaults for quick mode

encryption are overridden, specify the customized parameters and set this parameter value, making this parameter the new default setting for encryption.

Required? true

Position? 0

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-NewDisplayName <String>

Specifies the new display name for an IPsec rule.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-PassThru [<SwitchParameter>]

Returns an object representing the item with which you are working. By default, this cmdlet does not generate any output.

Required? false

Position? named Page 7/12

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-PerfectForwardSecrecyGroup <DiffieHellmanGroup>

Specifies that matching main mode cryptographic sets of the indicated Diffie-Hellman group are modified. This parameter specifies the Diffie-Hellman group to use

for session key perfect forward secrecy. The acceptable values for this parameter are: None, DH1, DH2, DH14, DH19, DH20, DH24, or SameAsMainMode.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-PolicyStore <String>

Specifies the policy store from which to retrieve the sets to be modified. 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 system 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 hostnamehostname`.

	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:	his read-only store contains the sum of all
GF	Os applied to the local computer.
- S	stemDefaults: This read-only store contains the default state of firewall rules that ship with Windows Serverr 2012.
- S	aticServiceStore: This read-only store contains all the service restrictions that ship with Windows Server 2012.
0	otional and product-dependent features are considered part of Windows Server 2012 for the purposes of WFAS.
Configu	ableServiceStore: This read-write store
CC	ntains all the service restrictions that are added for third-party services. In addition, network isolation rules that are
created	for Windows Store application
СО	ntainers will appear in this policy store. The default value is PersistentStore. This cmdlet cannot be used to add ar
object to	a policy store. An object can
	only be added to a policy store at creation time with the Copy-NetlPsecQuickModeCryptoSet cmdlet or with the
New-Ne	IPsecQuickModeCryptoSet cmdlet.
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	quired? false
	sition? named
	ault value None
	rept pipeline input? False
Ac	ept wildcard characters? false

-Proposal <CimInstance[]>

Associates the specified cryptographic proposal to the corresponding cryptographic set to be used in main mode negotiations. Separate multiple entries with a

comma.

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

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-WhatIf [<SwitchParameter>]

Shows what would happen if the cmdlet runs. The cmdlet is not run.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

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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\MSFT_NetIKEQMCryptoSet[]

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

Microsoft.Management.Infrastructure.CimInstance#root\StandardCimv2\MSFT_NetIKEQMCryptoSet[]

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.

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

PS C:\>\$crypto1 = New-NetIPsecQuickModeCryptoProposal -Encryption AES128 -ESPHash AESGMAC128

PS C:\>Set-NetIPsecQuickModeCryptoSet -DisplayName "Exchange HIPAA Server, 80 <-> Any - Phase 2 Crypto S	et
-Proposals \$crypto1,\$crypto2	
This example replaces the proposals of an existing quick mode cryptographic set.	
EXAMPLE 2	
PS C:\>Set-NetIPsecMainModeCryptoSet -DisplayGroup "Exchange HIPAA Server" -PerfectForwardSecrecyGroup DH	14
This example modifies the perfect forward secrecy group for a group of quick mode cryptographic sets.	
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