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Windows PowerShell Get-Help on Cmdlet 'Copy-NetIPsecPhase1AuthSet'

PS:\>Get-HELP Copy-NetIPsecPhase1AuthSet -Full

NAME

Copy-NetIPsecPhase1AuthSet

SYNOPSIS

Copies an entire phase 1 authentication set to the same or to a different policy store.

SYNTAX

Copy-NetIPsecPhase1AuthSet [-All] [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-GPOSession <String>] [-NewGPOSession <String>]

[-NewPolicyStore <String>] [-PassThru] [-PolicyStore <String>] [-ThrottleLimit <Int32>] [-TracePolicyStore] [-WhatIf] [<CommonParameters>]

Copy-NetIPsecPhase1AuthSet [-AsJob] -AssociatedNetIPsecMainModeRule <CimInstance> [-CimSession <CimSession[]>] [-Confirm] [-GPOSession <String>] [-NewGPOSession

<String>] [-NewName <String>] [-NewPolicyStore <String>] [-PassThru] [-PolicyStore <String>] [-ThrottleLimit <Int32>] [-TracePolicyStore] [-WhatIf]

[<CommonParameters>]

[-Confirm] [-GPOSession < String>] [-NewGPOSession < String>]

[-NewName <String>] [-NewPolicyStore <String>] [-PassThru] [-PolicyStore <String>] [-ThrottleLimit <Int32>] [-TracePolicyStore] [-WhatIf] [<CommonParameters>]

Copy-NetlPsecPhase1AuthSet [-AsJob] [-CimSession < CimSession[]>] [-Confirm] [-Description < String[]>] [-DisplayGroup < String[]>] [-GPOSession < String>] [-Group

<String[]>] [-NewGPOSession <String>] [-NewName <String>] [-NewPolicyStore <String>] [-PolicyStoreSource <String[]>]

[-PolicyStoreSourceType {None | Local | GroupPolicy | Dynamic | Generated | Hardcoded}] [-PrimaryStatus {Unknown | OK | Inactive | Error}] [-Status <String[]>]

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

Copy-NetIPsecPhase1AuthSet [-AsJob] [-CimSession <CimSession[]>] [-Confirm] -DisplayName <String[]> [-GPOSession <String>] [-NewGPOSession <String>] [-NewName

<String>] [-NewPolicyStore <String>] [-PassThru] [-PolicyStore <String>] [-ThrottleLimit <Int32>] [-TracePolicyStore]
[-WhatIf] [<CommonParameters>]

Copy-NetlPsecPhase1AuthSet [-Name] <String[]> [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-GPOSession <String>] [-NewGPOSession <String>]

[-NewPolicyStore <String>] [-PassThru] [-PolicyStore <String>] [-ThrottleLimit <Int32>] [-TracePolicyStore] [-WhatIf] [<CommonParameters>]

Copy-NetIPsecPhase1AuthSet [-AsJob] [-CimSession <CimSession[]>] [-Confirm] -InputObject <CimInstance[]> [-NewGPOSession <String>] [-NewName <String>]

[-NewPolicyStore <String>] [-PassThru] [-ThrottleLimit <Int32>] [-Whatlf] [<CommonParameters>]

DESCRIPTION

The Copy-NetlPsecPhase1AuthSet cmdlet copies a phase 1 authentication set to a policy store, making a complete clone. When a new policy store is not specified, it is

copied to the same policy store with a new name specified by the user.

This condelt gets one or more phase 1 authentication sets to be duplicated with the Name parameter (defined) 1/16/16

DisplayName parameter, set properties, or by the

associated filters or objects. The resulting queried set is copied to a new policy store using the NewPolicyStore

parameter, a new GPO session using the NewGPOSession

parameter, or to the same policy store using the NewName parameter. Only one phase 1 authentication set can be

copied at a time when copying to the same policy store.

This is because only a single authentication set can use the unique identifier, or name, specified by the NewName

parameter.

When copying a set to a new policy store, the unique name of the set is preserved. This means that if the same set is

attempted to be copied twice, then an error is

displayed for the second attempt indicating that the object already exists. To overwrite the target set, run the

Remove-NetlPsecPhase1AuthSet cmdlet first. If it is

possible that the object may already exist, then specify the ErrorAction parameter to silently ignore these errors, instead

of running the

Remove-NetIPsecPhase1AuthSet cmdlet.

PARAMETERS

-All [<SwitchParameter>]

Indicates that all of the phase 1 authentication sets within the specified policy store are copied.

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-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 Page 3/18

Accept pipeline input? False

Accept wildcard characters? false

-AssociatedNetIPsecMainModeRule <CimInstance>

Gets the phase 1 authentication sets that are associated, via the pipeline, with the input main mode rule to be copied.

A NetIPsecMainModeRule object represents

a main mode rule, which alters the behavior of main mode authentications. Main mode negotiation establishes a

secure channel between two computers by determining

a set of cryptographic protection suites, exchanging keying material to establish a shared secret key, and

authenticating computer and user identities. See the

Get-NetIPsecMainModeRule cmdlet for more information.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-AssociatedNetIPsecRule <CimInstance>

Gets the phase 1 authentication sets that are associated, via the pipeline, with the input IPsec rule to be copied. A

NetIPsecRule object represents an IPsec

rule, which determines IPsec behavior. An IPsec rule can be associated with Phase1AuthSet, Phase2AuthSet, and

NetlPsecQuickMode cryptographic sets. See the

New-NetIPsecMainModeRule cmdlet for more information.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByValue)

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, 8909 4516

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

Accept pipeline input? False

Accept wildcard characters? false

-Description <String[]>

Specifies that matching phase 1 authentication sets of the indicated description are copied. Wildcard characters are accepted. This parameter provides

information about the phase 1 authentication rule. 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

Specifies that only matching phase 1 authentication sets of the indicated group association are copied. 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 the Set-NetIPsecPhase1AuthSet 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 a 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-NetIPsecPhase1AuthSet cmdlet, but

can be modified using dot notation and the Set-NetIPsecPhase1AuthSet cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-DisplayName <String[]>

Specifies that only matching phase 1 authentication sets of the indicated display name are copied. Wildcard characters are accepted. This parameter specifies the

localized, user-facing name of the phase 1 authentication 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>

Targets the network GPO from which to retrieve the sets to be copied. 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

-Group <String[]>

Specifies that only matching phase 1 authentication sets of the indicated group association are copied. 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 the

Set-NetIPsecPhase1AuthSet 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-NetIPsecPhase1AuthSet cmdlet, but can

be modified using dot notation and the Set-NetIPsecPhase1AuthSet cmdlet.

Required? false

Position? named Page 7/18

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?

Position? named

Default value None

Accept pipeline input? True (ByValue)

true

Accept wildcard characters? false

-Name <String[]>

Specifies that only matching phase 1 authentication sets of the indicated name are copied. 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 processing 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 phase 1 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 Page 8/18

-NewGPOSession <String>

Specifies the new GPO session for one or more phase 1 authentication sets.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-NewName <String>

Specifies the new name for one or more phase 1 authentication sets.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-NewPolicyStore <String>

Specifies the new policy store for one or more phase 1 authentication sets.

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.

	Position?	named	
	Default value	False	
	Accept pipeline input?	False	
	Accept wildcard characters? false		
-F	PolicyStore <string></string>		
	Targets the policy stor	e from which to retrieve the sets to be copied. A policy store is a container for firewall and IPsec	
poli	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 p	rogrammatically (during application installation) on the computer. Rules created in this store are	
attached to the ActiveStore and activated			
	on the computer imn	nediately ActiveStore: This store contains the currently active policy, which is the sum of all	
poli	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 serv	ice hardening (WSH), and the configurable WSH) Group Policy Objects (GPOs) are also	
poli	policy stores. Computer GPOs can be specified as		
	follows `-PolicyS	Store hostname`.	
	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`		

Required?

false

---- 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-NetIPsecPhase1AuthSet

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 this cmdlet or with the

New-NetIPsecPhase1AuthSet cmdlet.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-PolicyStoreSource <String[]>

Specifies that phase 1 authentication sets that match the indicated policy store source are copied. This parameter

contains a path to the policy store where the

rule originated if the object is retrieved from the ActiveStore with the TracePolicyStoreSource option set. This

parameter value is automatically generated and

should not be modified. The monitoring output from this parameter is not completely compatible with the PolicyStore

parameter. This parameter value cannot always

be passed into the PolicyStore parameter. Domain GPOs are one example in which this parameter contains only the

GPO name, not the domain name.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-PolicyStoreSourceType <PolicyStoreType[]>

Specifies that phase 1 authentication sets that match the indicated policy store source type are copied. This parameter describes the type of policy store where

the rule originated if the object is retrieved from the ActiveStore with the TracePolicyStoreSource option set. This parameter value is automatically generated

and should not be modified. The acceptable values for this parameter are:

- Local: The object originates from the local store.
- GroupPolicy: The object originates from a GPO.
- Dynamic: The object originates from the local runtime state.

This policy store name is not valid for use in cmdlets, but may appear when monitoring active policy. - Generated: The object was generated automatically. This

policy store name is not valid for use in cmdlets, but may appear when monitoring active policy. - Hardcoded: The object was hard-coded. This policy store name

is not valid for use in cmdlets, but may appear when monitoring active policy.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-PrimaryStatus < PrimaryStatus[]>

Specifies that phase 1 authentication sets that match the indicated primary status are copied. This again that match the indicated primary status are copied.

describes the overall status of the rule.

- OK: Specifies that the rule will work as specified.
- Degraded: Specifies that one or more parts of the rule will not be enforced.
- Error: Specifies that the computer is unable to use the rule at all.

See the Status and StatusCode fields of the object for more detailed status information.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Status <String[]>

Specifies that phase 1 authentication sets that match the indicated status are copied. This parameter describes the status message for the specified status code

value. The status code is a numerical value that indicates any syntax, parsing, or runtime errors in the rule. This parameter value should not be modified.

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

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

-TracePolicyStore [<SwitchParameter>]

Indicates that the phase 1 authentication sets that match the indicated policy store are copied. This parameter specifies that the name of the source GPO is

queried and set to the PolicyStoreSource parameter value.

Required? false

Position? named

Default value False

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

<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\MSFT_NetConSecRule[]

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.

Microsoft.Management.Infrastructure.CimInstance#root\StandardCimv2\MSFT_NetIKEP1AuthSet[]

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.

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

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_NetIKEP1AuthSet[]

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.

NOTES

PS C:\>Copy-NetIPsecPhase1AuthSet -DisplayName "Phase 1 Auth Set" -NewName "Alternate Phase 1 Auth Set" This example copies a phase 1 authorization set, as specified by the localized name, to the current policy store under a new unique identifier. The localized DisplayName parameter value remains the same. ----- EXAMPLE 2 -----PS C:\>\$MMrule = Get-NetIPsecMainModeRule -DisplayName "Main Mode Rule: P1Auth + Crypto" -PolicyStore domain.contoso.com\GPO name PS C:\>\$MMrule | Copy-NetIPsecPhase1AuthSet -NewPolicyStore domain.contoso.com\new_GPO) PS C:\>\$MMrule | Copy-NetIPsecMainModeCryptoSet -NewPolicyStore domain.contoso.com\new GPO) PS C:\>\$MMrule | Set-NetIPsecMainModeRule -Phase1AuthSet \$CopiedCryptoSet.Name The following cmdlets accomplish the same task but take advantage of caching the GPO to apply the changes locally. PS C:\>\$MMrule = Get-NetIPsecMainModeRule -DisplayName "Main Mode Rule: P1Auth + Crypto" -PolicyStore domain.contoso.com\GPO_name

PS C:\>\$NewGPO = Open-NetGPO -PolicyStore domain.contoso.com\new_GPO

