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PowerShell

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PowerShell Get-Help on command 'Add-DnsClientNrptRule'

PS C:\Users\wahid> Get-Help Add-DnsClientNrptRule

NAME

Add-DnsClientNrptRule

SYNOPSIS

Adds a rule to the NRPT.

SYNTAX

```
Add-DnsClientNrptRule [-Namespace] <String[]> [-AsJob] [-CimSession  
<CimSession[]>] [-Comment <String>] [-Confirm] [-DAEnable]  
[-DAIPsecEncryptionType { | None | Low | Medium | High}] [-DAIPsecRequired]  
[-DANameServers <String[]>] [-DAProxyServerName <String>] [-DAProxyType { |  
NoProxy | UseDefault | UseProxyName}] [-DisplayName <String>] [-DnsSecEnable]  
[-DnsSecIPsecEncryptionType { | None | Low | Medium | High}]  
[-DnsSecIPsecRequired] [-DnsSecValidationRequired] [-GpoName <String>]  
[-IPsecTrustAuthority <String>] [-NameEncoding {Disable | Utf8WithMapping |  
Utf8WithoutMapping | Punycode}] [-NameServers <String[]>] [-PassThru] [-Server  
<String>] [-ThrottleLimit <Int32>] [-WhatIf] [<CommonParameters>]
```

DESCRIPTION

The Add-DnsClientNrptRule cmdlet adds a Name Resolution Policy Table (NRPT) rule for the specified namespace.

PARAMETERS

-AsJob [<SwitchParameter>]

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

The cmdlet immediately returns an object that represents the job and then displays the command prompt. You can continue to work in the session while the job completes. To manage the job, use the ``*-Job`` cmdlets. To get the job results, use the Receive-Job (<https://go.microsoft.com/fwlink/?LinkID=113372>)cmdlet.

For more information about Windows PowerShell background jobs, see about_Jobs (<https://go.microsoft.com/fwlink/?LinkID=113251>).

-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.

-Comment <String>

Stores administrator notes.

-Confirm [<SwitchParameter>]

Prompts you for confirmation before running the cmdlet.

-DAEnable [<SwitchParameter>]

Indicates the rule state for DirectAccess.

-DAIPsecEncryptionType <String>

Specifies the Internet Protocol security (IPsec) encryption setting for DirectAccess. The acceptable values for this parameter are:

- None

- Low

- Medium

- High

-DAIPsecRequired [<SwitchParameter>]

Indicates that IPsec is required for DirectAccess.

-DANameServers <String[]>

Specifies an array of DNS servers to query when DirectAccess is enabled.

-DAProxyServerName <String>

Specifies the proxy server to use when connecting to the Internet. This parameter is only applicable if the DAProxyType parameter is set to UseProxyName.

Acceptable formats are:

- hostname:port

- IPv4 address:port

- IPv6 address:port

-DAProxyType <String>

Specifies the proxy server type to be used when connecting to the Internet. The acceptable values for this parameter are:

- NoProxy

- UseDefault

- UseProxyName

- DisplayName <String>

Specifies an optional friendly name for the NRPT rule.

- DnsSecEnable [<SwitchParameter>]

Enables Domain Name System Security Extensions (DNSSEC) on the rule.

- DnsSecIPsecEncryptionType <String>

Specifies the IPsec tunnel encryption settings.

- DnsSecIPsecRequired [<SwitchParameter>]

Indicates the DNS client must set up an IPsec connection to the DNS server.

- DnsSecValidationRequired [<SwitchParameter>]

Indicates that DNSSEC validation is required.

- GpoName <String>

Specifies the name of the Group Policy Object (GPO).

- If this parameter and the Server parameter are specified, then the NRPT rule is added in the GPO of domain. The Server parameter specifies the domain controller (DC). - If neither this parameter nor the Server parameter is specified, then the NRPT rule is added for local client computer. - If this parameter is specified and the Server parameter is not specified, then the DC of the domain specified by this parameter value

is found and NRPT rule is added to the GPO. - If this parameter is not specified and the Server parameter is specified, then an error is displayed.

`-IPsecTrustAuthority <String>`

Specifies the certification authority to validate the IPsec channel.

`-NameEncoding <String>`

Specifies the encoding format for host names in the DNS query. The acceptable values for this parameter are:

- Disable

- Utf8WithMapping

- Utf8WithoutMapping

- Punycode

`-NameServers <String[]>`

Specifies the DNS servers to which the DNS query is sent when DirectAccess is disabled.

`-Namespace <String[]>`

Specifies the DNS namespace.

`-PassThru [<SwitchParameter>]`

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

`-Server <String>`

Specifies the server hosting the GPO. This parameter is only applicable with the GpoName parameter.

-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.

-WhatIf [<SwitchParameter>]

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

<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>).

----- Example 1: Add an NRPT rule to a GPO -----

```
PS C:\> Add-DnsClientNrptRule -GpoName "TestGPO" -DNameServers "10.0.0.1"
-DAIPsecRequired -DAIPsecEncryptionType "High" -DProxyServerName
"DaServer.com:6666" -DnsSecEnable -PassThru -DProxyType "UseProxyName"
-DnsSecValidationRequired -DAEnable -IPsecTrustAuthority "RootCA" -Comment
"Sample NRPT Rule" -DisplayName "Sample" -DnsSecIPsecRequired
-DnsSecIPsecEncryptionType "Medium" -NameServers "10.0.0.1" -NameEncoding
"Punycode" -Namespace "dnsnrpt.com" -Server "host1.com"
```

This command adds an NRPT rule in TestGPO on server host1.com for the namespace dnsnrpt.com.

----- Example 2: Add an NRPT rule to configure a server -----

```
PS C:\> Add-DnsClientNrptRule -Namespace "pqr.com" -NameServers "10.0.0.1"
```

This command adds an NRPT rule that configures the server named 10.0.0.1 as a DNS server for the namespace pqr.com.

----- Example 3: Add an NRPT rule to enable DNSSEC queries -----

```
PS C:\> Add-DnsClientNrptRule -Namespace "pqr.com" -DnsSecEnable
```

This command adds an NRPT rule that enables DNSSEC queries to be sent for the namespace pqr.com.

Example 4: Add an NRPT rule to enable DNSSEC queries for a specified namespace

```
PS C:\> Add-DnsClientNrptRule -Namespace "pqr.com" -DnsSecEnable -NameServers  
"10.0.0.1"
```

This command adds an NRPT rule that enables DNSSEC queries to be sent to DNS server named 10.0.0.1 for the namespace pqr.com.

--- Example 5: Add an NRPT rule to send Punycode DNS queries ---

```
PS C:\> Add-DnsClientNrptRule -Namespace "pqr.com" -NameEncoding "Punycode"  
-NameServers "10.1.1.1" -PassThru
```

Name : {6a78d8d1-231d-4d1e-bc23-fb593e11a53d}

Version : 2

Namespace : {pqr.com}

IPsecCARestriction :

DirectAccessDnsServers :

DirectAccessEnabled : False

DirectAccessProxyType :

DirectAccessProxyName :

DirectAccessQueryIPsecEncryption :

DirectAccessQueryIPsecRequired :

NameServers : 10.1.1.1

DnsSecEnabled : False

DnsSecQueryIPsecEncryption :
DnsSecQueryIPsecRequired :
DnsSecValidationRequired :
NameEncoding : Punycode
DisplayName :
Comment :

This command adds an NRPT rule that sends DNS queries encoded in Punycode to DNS server named 10.1.1.1 for the namespace pqr.com.

REMARKS

To see the examples, type: "get-help Add-DnsClientNrptRule -examples".

For more information, type: "get-help Add-DnsClientNrptRule -detailed".

For technical information, type: "get-help Add-DnsClientNrptRule -full".

For online help, type: "get-help Add-DnsClientNrptRule -online"