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### ***Windows PowerShell Get-Help on Cmdlet 'Add-DnsClientNrptRule'***

**PS:\>Get-HELP Add-DnsClientNrptRule -Full**

#### **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] [-DnsSeclPsecEncryptionType { | None | Low | Medium | High}] [-DnsSeclPsecRequired]
[-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>).

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

-Comment <String>

Stores administrator notes.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

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

-DAEnable [<SwitchParameter>]

Indicates the rule state for DirectAccess.

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-DAIPsecEncryptionType <String>

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

- Low

- Medium

- High

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

#### **-DAIPsecRequired [<SwitchParameter>]**

Indicates that IPsec is required for DirectAccess.

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

#### **-DANameServers <String[]>**

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

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

#### **-DAProxyServerName <String>**

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

DAPProxyType parameter is set to UseProxyName.

Acceptable formats are:

- hostname:port

- IPv4 address:port

- IPv6 address:port

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-DAPProxyType <String>

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

- NoProxy

- UseDefault

- UseProxyName

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-DisplayName <String>

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Specifies an optional friendly name for the NRPT rule.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

#### -DnsSecEnable [<SwitchParameter>]

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

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

#### -DnsSeclPsecEncryptionType <String>

Specifies the IPsec tunnel encryption settings.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

#### -DnsSeclPsecRequired [<SwitchParameter>]

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

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-DnsSecValidationRequired [<SwitchParameter>]

Indicates that DNSSEC validation is required.

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-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.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-IPsecTrustAuthority <String>

Specifies the certification authority to validate the IPsec channel.

Required? false

Position? named

Default value        None

Accept pipeline input?    True (ByPropertyName)

Accept wildcard characters? false

#### -NameEncoding <String>

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

- Disable

- Utf8WithMapping

- Utf8WithoutMapping

- Punycode

Required?        false

Position?        named

Default value        None

Accept pipeline input?    True (ByPropertyName)

Accept wildcard characters? false

#### -NameServers <String[]>

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

Required?        false

Position?        named

Default value        None

Accept pipeline input?    True (ByPropertyName)

Accept wildcard characters? false

#### -Namespace <String[]>

Specifies the DNS namespace.

Required? true  
Position? 1  
Default value None  
Accept pipeline input? True (ByPropertyName)  
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  
Default value False  
Accept pipeline input? False  
Accept wildcard characters? false

#### -Server <String>

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

Required? false  
Position? named  
Default value None  
Accept pipeline input? True (ByPropertyName)  
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

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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

#### <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/Microsoft/Windows/DNS/DnsClientNrptRule

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/Microsoft/Windows/DNS/DnsClientNrptRule

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.

The `DnsClientNrptRule` object contains all of the properties of the DNS client NRPT rule.

## NOTES

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

```
PS C:\> Add-DnsClientNrptRule -GpoName "TestGPO" -DANameServers "10.0.0.1" -DAIPsecRequired  
-DAIPsecEncryptionType "High" -DAProxyServerName "DaServer.com:6666"  
-DnsSecEnable -PassThru -DAProxyType "UseProxyName" -DnsSecValidationRequired -DAEnable -IPsecTrustAuthority  
"RootCA" -Comment "Sample NRPT Rule" -DisplayName  
"Sample" -DnsSeclPsecRequired -DnsSeclPsecEncryptionType "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.

## RELATED LINKS

	Online	Version:
<a href="https://learn.microsoft.com/powershell/module/dnsclient/add-dnsclientnrptrule?view=windowsserver2022-ps&amp;wt.mc_id=ps-gethelp">https://learn.microsoft.com/powershell/module/dnsclient/add-dnsclientnrptrule?view=windowsserver2022-ps&amp;wt.mc_id=ps-gethelp</a>		

Get-DnsClientNrptPolicy

Get-DnsClientNrptRule

Remove-DnsClientNrptRule

Set-DnsClientNrptGlobal

Set-DnsClientNrptRule