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Add-DnsClientNrptRule

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Module: DnsClient

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Adds a rule to the NRPT.

Syntax

PowerShell   📋 Copy

```
Add-DnsClientNrptRule
    [-GpoName <String>]
    [-DANameServers <String[]>]
    [-DAIPsecRequired]
    [-DAIPsecEncryptionType <String>]
    [-DAProxyServerName <String>]
    [-DnsSecEnable]
    [-DnsSecIPsecRequired]
    [-DnsSecIPsecEncryptionType <String>]
    [-NameServers <String[]>]
    [-NameEncoding <String>]
    [-Namespace] <String[]>
    [-Server <String>]
    [-DAProxyType <String>]
    [-DnsSecValidationRequired]
    [-DAEnable]
    [-IPsecTrustAuthority <String>]
    [-Comment <String>]
    [-DisplayName <String>]
    [-PassThru]
    [-CimSession <CimSession[]>]
    [-ThrottleLimit <Int32>]
    [-AsJob]
    [-WhatIf]
    [-Confirm]
    [<CommonParameters>]
```

Description

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

Examples

Example 1: Add an NRPT rule to a GPO

PowerShell	⧉ Copy

```
PS C:\> Add-DnsClientNrptRule -GpoName "TestGPO" -DANameServers "10.0.0.1" -DAIP
```

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

PowerShell	⧉ Copy

```
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

PowerShell	⧉ Copy

```
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

PowerShell	⧉ Copy

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

PowerShell	⧉ Copy

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

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.

Parameters

-AsJob

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⧉ cmdlet.

For more information about Windows PowerShell background jobs, see about_Jobs⧉ .

⛶ **Expand table**

Type:	SwitchParameter
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-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⧉ or Get-CimSession⧉ cmdlet. The default is the current session on the local computer.

⛶ **Expand table**

Type:	CimSession[]
Aliases:	Session
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-Comment

Stores administrator notes.

⛶ **Expand table**

Type:	String
Position:	Named

Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-Confirm

Prompts you for confirmation before running the cmdlet.

⛶ **Expand table**

Type:	SwitchParameter
Aliases:	cf
Position:	Named
Default value:	False
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-DAEnable

Indicates the rule state for DirectAccess.

⛶ **Expand table**

Type:	SwitchParameter
Aliases:	DirectAccessEnabled
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-DAIPsecEncryptionType

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

- None
- Low
- Medium
- High

⛶ **Expand table**

Type:	String
Aliases:	DirectAccessQueryIPSSECEncryption
Accepted values:	, None, Low, Medium, High
Position:	Named

Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-DAIPsecRequired

Indicates that IPsec is required for DirectAccess.

◻ **Expand table**

Type:	SwitchParameter
Aliases:	DirectAccessQueryIPsecRequired
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-DANameServers

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

◻ **Expand table**

Type:	String[]
Aliases:	DirectAccessDnsServers
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-DAProxyServerName

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

◻ **Expand table**

Type:	String
Aliases:	DirectAccessProxyName
Position:	Named
Default value:	None

Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-DAProxyType

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

- NoProxy
- UseDefault
- UseProxyName

⧉ **Expand table**

Type:	String
Aliases:	DirectAccessProxyType
Accepted values:	, NoProxy, UseDefault, UseProxyName
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-DisplayName

Specifies an optional friendly name for the NRPT rule.

⧉ **Expand table**

Type:	String
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-DnsSecEnable

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

⧉ **Expand table**

Type:	SwitchParameter
Aliases:	DnsSecEnabled
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True

Accept wildcard characters:	False

-DnsSecIPsecEncryptionType

Specifies the IPsec tunnel encryption settings.

⛶ **Expand table**

Type:	String
Aliases:	DnsSecQueryIPsecEncryption
Accepted values:	, None, Low, Medium, High
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-DnsSecIPsecRequired

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

⛶ **Expand table**

Type:	SwitchParameter
Aliases:	DnsSecQueryIPsecRequired
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-DnsSecValidationRequired

Indicates that DNSSEC validation is required.

⛶ **Expand table**

Type:	SwitchParameter
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-GpoName

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.

⛶ **Expand table**

Type:	String
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-IPsecTrustAuthority

Specifies the certification authority to validate the IPsec channel.

⛶ **Expand table**

Type:	String
Aliases:	IPsecCARestriction
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-NameEncoding

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

- Disable
- Utf8WithMapping
- Utf8WithoutMapping
- Punycode

⛶ **Expand table**

Type:	String
Accepted values:	Disable, Utf8WithMapping, Utf8WithoutMapping, Punycode
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-NameServers

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

⛶ Expand table

Type:	String[]
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-Namespace

Specifies the DNS namespace.

⛶ Expand table

Type:	String[]
Position:	1
Default value:	None
Required:	True
Accept pipeline input:	True
Accept wildcard characters:	False

-PassThru

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

⛶ Expand table

Type:	SwitchParameter
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-Server

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

⛶ Expand table

Type:	String
Position:	Named
Default value:	None

Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-ThrottleLimit

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.

⌄⌃ **Expand table**

Type:	Int32
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

-WhatIf

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

⌄⌃ **Expand table**

Type:	SwitchParameter
Aliases:	wi
Position:	Named
Default value:	False
Required:	False
Accept pipeline input:	False
Accept wildcard characters:	False

Inputs

CimInstance

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

CimInstance

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.

Related Links

- Get-DnsClientNrptGlobal
- Get-DnsClientNrptPolicy
- Get-DnsClientNrptRule
- Remove-DnsClientNrptRule
- Set-DnsClientNrptGlobal
- Set-DnsClientNrptRule

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