PowerShell Get-Help on command 'New-CimSessionOption'

PS C:\Users\wahid> Get-Help New-CimSessionOption

NAME

New-CimSessionOption

SYNOPSIS

Specifies advanced options for the New-CimSession cmdlet.

SYNTAX

New-CimSessionOption [-Culture <System.Globalization.CultureInfo>]

[-EncodePortInServicePrincipalName] [-Encoding {Default | Utf8 | Utf16}]

[-HttpPrefix <System.Uri>] [-MaxEnvelopeSizeKB <System.UInt32>]

[-NoEncryption] [-ProxyAuthentication {Default | Digest | Negotiate | Basic |

Kerberos | NtlmDomain | CredSsp}] [-ProxyCertificateThumbprint

<System.String>] [-ProxyCredential

<System.Management.Automation.PSCredential>] [-ProxyType {None | WinHttp |

Auto | InternetExplorer}] [-SkipCACheck] [-SkipCNCheck] [-SkipRevocationCheck]

[-UICulture <System.Globalization.CultureInfo>] [-UseSsl] [<CommonParameters>]

New-CimSessionOption [-Culture <System.Globalization.CultureInfo>]

[-Impersonation {Default | None | Identify | Impersonate | Delegate}]

[-PacketIntegrity] [-PacketPrivacy] [-UICulture

<System.Globalization.CultureInfo>] [<CommonParameters>]

New-CimSessionOption [-Protocol] {Dcom | Default | Wsman} [-Culture

<System.Globalization.CultureInfo>] [-UICulture

<System.Globalization.CultureInfo>] [<CommonParameters>]

DESCRIPTION

The `New-CimSessionOption` cmdlet creates an instance of a CIM session options

object. You use a CIM session options object as input to the `New-CimSession`

cmdlet to specify the options for a CIM session.

This cmdlet has two parameter sets, one for WsMan options and one for

Distributed Component Object Model (DCOM) options. Depending on which

parameters you use, the cmdlet returns either an instance of DCOM session

options or returns WsMan session options.

PARAMETERS

-Culture <System.Globalization.CultureInfo>

Specifies the user interface culture to use for the CIM session. Specify

the value for this parameter using one of the following formats:

- A culture name in `<languagecode2>-<country/regioncode2>` format such as

"EN-US".

- A variable that contains a CultureInfo object. - A command that gets a

CultureInfo object, such as Get-Culture

(../Microsoft.PowerShell.Utility/Get-Culture.md)

-EncodePortInServicePrincipalName

<System.Management.Automation.SwitchParameter>

Indicates that the Kerberos connection is connecting to a service whose

service principal name (SPN) includes the service port number. This type
of connection is not common.

-Encoding <Microsoft.Management.Infrastructure.Options.PacketEncoding>
Specifies the encoding used for the WsMan protocol. The acceptable values
for this parameter are: Default , Utf8 , or Utf16 .

-HttpPrefix <System.Uri>
Specifies the part of the HTTP URL after the computer name and port
number. Changing this is not common. By default, the value of this
parameter is /wsman .

-Impersonation <Microsoft.Management.Infrastructure.Options.ImpersonationType>
Creates a DCOM session to Windows Management Instrumentation (WMI) using
impersonation.

Valid values for this parameter are:

- Default: DCOM can choose the impersonation level using its normal
security negotiation algorithm.

- None: The client is anonymous to the server. The server process can
impersonate the client, but

the impersonation token does not contain any information and cannot be
used. - Identify: Allows objects to query the credentials of the caller.

- Impersonate: Allows objects to use the credentials of the caller.

- Delegate: Allows objects to permit other objects to use the credentials
of the caller.

If Impersonation is not specified, the `New-CimSession` cmdlet uses the

value of Impersonate .

-MaxEnvelopeSizeKB <System.UInt32>

Specifies the size limit of WsMan XML messages for either direction.

-NoEncryption <System.Management.Automation.SwitchParameter>

Specifies that data encryption is turned off.

-PacketIntegrity <System.Management.Automation.SwitchParameter>

Specifies that the DCOM session created to WMI uses the Component Object

Model (COM) PacketIntegrity functionality. By default, all CIM sessions

created using DCOM have the PacketIntegrity parameter set to True .

-PacketPrivacy <System.Management.Automation.SwitchParameter>

Creates a DCOM session to WMI using the COM PacketPrivacy . By default,

all CIM sessions created using DCOM have the PacketPrivacy parameter set

to true .

-Protocol <Microsoft.Management.Infrastructure.CimCmdlets.ProtocolType>

Specifies the protocol to use. The acceptable values for this parameter

are: DCOM , Default , or Wsman .

-ProxyAuthentication

<Microsoft.Management.Infrastructure.Options.PasswordAuthenticationMechanism>

Specifies the authentication method to use for proxy resolution. The

acceptable values for this parameter are: Default , Digest , Negotiate ,

Basic , Kerberos , NtlmDomain , or CredSsp .

-ProxyCertificateThumbprint <System.String>

Specifies the (x.509) digital public key certificate of a user account for

proxy authentication. Enter the certificate thumbprint of the certificate.

Certificates are used in client certificate-based authentication. They can only be mapped to local user accounts and they do not work with domain accounts.

To get a certificate thumbprint, use the `Get-Item` or `Get-ChildItem` cmdlets in the PowerShell Cert: drive.

-ProxyCredential <System.Management.Automation.PSCredential>
    Specifies the credentials to use for proxy authentication. Enter one of the following:

    - A variable that contains a PSCredential object.

    - A command that gets a PSCredential object, such as `Get-Credential`

    If this option is not set, then you cannot specify any credentials.

-ProxyType <Microsoft.Management.Infrastructure.Options.ProxyType>
    Specifies the host name resolution mechanism to use. The acceptable values for this parameter are: None , WinHttp , Auto , or InternetExplorer .

    The default value of this parameter is InternetExplorer .

-SkipCACheck <System.Management.Automation.SwitchParameter>
    Indicates that when connecting over HTTPS, the client does not validate that the server certificate is signed by a trusted certification authority (CA).

    Use this parameter only when the remote computer is trusted using another mechanism, such as when the remote computer is part of a network that is physically secure and isolated, or when the remote computer is listed as a

trusted host in a WinRM configuration.

-SkipCNCheck <System.Management.Automation.SwitchParameter>

Indicates that the certificate common name (CN) of the server does not

need to match the hostname of the server. Use this parameter for remote

operations only with trusted computers that use the HTTPS protocol.

-SkipRevocationCheck <System.Management.Automation.SwitchParameter>

Indicates that the revocation check for server certificates is skipped.

Use this parameter only for trusted computers.

-UICulture <System.Globalization.CultureInfo>

Specifies the user interface culture to use for the CIM session. Specify

the value for this parameter using one of the following formats:

- A culture name in `<languagecode2>-<country/regioncode2>` format such as

"EN-US".

- A variable that contains a CultureInfo object.

- A command that gets a CultureInfo object, such as `Get-Culture`.

-UseSsl <System.Management.Automation.SwitchParameter>

Indicates that SSL should be used to establish a connection to the remote

computer. By default, SSL is not used. WsMan encrypts all content that is

transmitted over the network, even when using HTTP.

This parameter lets you specify the additional protection of HTTPS instead

of HTTP. If SSL is not available on the port used for the connection and

you specify this parameter, then the command fails.

It is recommended that you use this parameter only when the PacketPrivacy

parameter is not specified.

<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: Create a CIM session options object for DCOM ---

$so = New-CimSessionOption -Protocol DCOM

New-CimSession -ComputerName Server01 -SessionOption $so

--- Example 2: Create a CIM session options object for WsMan ---

New-CimSessionOption -ProxyAuthentication Kerberos -ProxyCredential $cred

-SkipCACheck -SkipCNCheck -UseSsl

Example 3: Create a CIM session options object with the culture specified

New-CimSessionOption -Culture Fr-Fr -Protocol Wsman

This example specifies the culture that is used for the CIM session. By

default, the culture of the client is used when performing operations.

However, the default culture can be overridden using the Culture parameter.

REMARKS

    To see the examples, type: "get-help New-CimSessionOption -examples".

    For more information, type: "get-help New-CimSessionOption -detailed".

    For technical information, type: "get-help New-CimSessionOption -full".

    For online help, type: "get-help New-CimSessionOption -online"