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Windows PowerShell Get-Help on Cmdlet 'New-EapConfiguration'

PS:\>Get-HELP New-EapConfiguration -Full

NAME

New-EapConfiguration

SYNOPSIS

Generates an XML file with the specified EAP configuration.

SYNTAX

New-EapConfiguration [-Peap] [[-VerifyServerIdentity]] [[-TunneledEapAuthMethod] <XmlDocument>] [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-EnableNap]

[-FastReconnect <Boolean>] [-ThrottleLimit <Int32>] [-Whatlf] [<CommonParameters>]

New-EapConfiguration [-Tls] [[-VerifyServerIdentity]] [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-ThrottleLimit <Int32>] [-UserCertificate] [-WhatIf]

[<CommonParameters>]

New-EapConfiguration [-Ttls] [[-TunneledEapAuthMethod] <XmlDocument>] [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-ThrottleLimit <Int32>]

[-TunneledNonEapAuthMethod {Pap | Chap | MSChap | MSChapv2}] [-UseWinlogonCredential] [-Whatlf] [<CommonParameters>]

New-EapConfiguration [-AsJob] [-CimSession <CimSession[]>] [-Confirm] [-ThrottleLimit <Int32>] [-UseWinlogonCredential] [-WhatIf] [<CommonParameters>]

DESCRIPTION

The New-EapConfiguration cmdlet creates an XML file with the specified EAP configuration. You use this cmdlet to create the EAP XML configuration file for EAP

authentication that is then used by the Set-VpnConnection cmdlet or the Add-VpnConnection cmdlet. If errors happen during the generation of the XML file, the error

information is returned.

PARAMETERS

-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

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 Page 2/10

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

-EnableNap [<SwitchParameter>]

Indicates that the cmdlet enables Network Access Protection (NAP) for PEAP.

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-FastReconnect <Boolean>

Specifies whether to enable FastReconnect in the current PEAP configuration. Specify either \$True or \$False.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Peap [<SwitchParameter>]

Indicates that PEAP is used as the authentication method.

Required? true

Position? 1

Default value False

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 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

-Tls [<SwitchParameter>]

Indicates that EAP-TLS, either smart card based or user certificate based, is used as the authentication method.

Required? true

Position? 1

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-Ttls [<SwitchParameter>]

Indicates that TTLS is used as the authentication method.

Required? true

Position? 1 Page 4/10

Accept pipeline input? True (ByProp	pertyName)
Accept wildcard characters? false	
-TunneledEapAuthMethod <xmldocumen< td=""><td>ıt></td></xmldocumen<>	ıt>
Specifies the configuration XML for tuni	neled EAP, EAP-TTLS, or PEAP authentication.
Required? false	
Position? 3	
Default value None	
Accept pipeline input? False	
Accept wildcard characters? false	
-TunneledNonEapAuthMethod <string></string>	
Specifies the simple EAP-TTLS client a	authentication methods. The acceptable values for this parameter are:
- Рар	
- Chap	
- MSChap	
- MSCHapv2	
Deguired? folso	
Required? false	
Position? named	
Default value None	oortuNama)
Accept pipeline input? True (ByProp	pertyname)
Accept wildcard characters? false	
-UseWinlogonCredential [<switchparame< td=""><td>tors]</td></switchparame<>	tors]
200 minogonoreaentiai (<20 mitori alaine	1017]

Indicates that MSCHAPv2 or EAP-MSCHAPv2 is used as the authentication method, and that Windows logon

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False

Default value

VPN connection profile.

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-UserCertificate [<SwitchParameter>]

Indicates that a user certificate is used for authentication. This parameter is used with EAP-TLS. If this parameter is not specified, a smart card authentication

is used.

Required? false

Position? named

Default value False

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-VerifyServerIdentity [<SwitchParameter>]

Indicates that server identity validation is performed for the VPN connection. This parameter is used with PEAP, and

authentication.

EAP-TLS with tunneled EAP client

Required? false

Position? 2

Default value False

Accept pipeline input? True (ByPropertyName)

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 OUTPUTS** Microsoft.Management.Infrastructure.CimInstance#root/Microsoft/Windows/RemoteAccess/ClientEapConfiguration 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. This cmdlet returns a VpnConnection object that contains the VPN connection configuration settings. **NOTES** ---- Example 1: Create a default EAP configuration object ----PS C:\> \$A = New-EapConfiguration

This command creates a default EAP configuration object, and stores it in the variable named \$A. You can use small the command creates a default EAP configuration object, and stores it in the variable named \$A.

configuration object stored in the variable when

you create a VPN connection or change the configuration of a VPN connection.

--- Example 2: Create a customized EAP configuration object ---

PS C:\> \$A = New-EapConfiguration -UseWinlogonCredential

This command creates an EAP configuration object, customized by the UseWinlogonCredential parameter, and stores it in the variable named \$A. By specifying the

UseWinlogonCredential parameter, the EAP configuration object is configured to use MSCHAPv2 as the authentication method, and that Windows logon credentials are used

automatically when connecting with the VPN connection profile.

See VPN authentication options (/windows/security/identity-protection/vpn/vpn-authentication)and Add connectivity profiles

(/windows/configuration/wcd/wcd-connectivityprofiles#vpn-1)to learn more about VPN authentication methods.

- Example 3: Create a TLS customized EAP configuration object -

PS C:\> \$A = New-EapConfiguration -Tls -VerifyServerIdentity -UserCertificate

This command creates a customized EAP configuration object and stores it in the variable named \$A. The EAP configuration object is customized by specifying the

following parameters:

- The TIs parameter, which indicates that this configuration object uses EAP-TLS - The VerifyServerIdentity parameter, which indicates that the identity of the server

to which the client connects is validated - The UserCertificate parameter, which indicates that the EAP-TLS authentication method uses a user certificate.

- Example 4: Create a TTLS customized EAP configuration object -

PS C:\> \$A = New-EapConfiguration -Ttls

This command creates an EAP configuration object, customized by the Ttls parameter to use the TTLS authentication

variable named \$A.

Example 5: Create a TTLS EAP configuration object with MSCHAPv2 as the client authentication method

PS C:\> \$A = New-EapConfiguration -Ttls -TunneledNonEapAuthMethod "MSChapv2" -UseWinlogonCredential

This command creates a new EAP configuration object and stores it in the variable named \$A. The EAP configuration object is customized by specifying the following

parameters:

- The Ttls parameter, which indicates that this configuration object uses TTLS as the authentication method - The TunneledNonEapAuthMethod parameter with the MSChapv2

value, which specifies that MSCHAPv2 is used as the specific client authentication method - The UseWinlogonCredential parameter, which indicates that Windows logon

credentials are used automatically when connecting with the VPN connection profile that uses this EAP configuration object.

Example 6: Create an EAP configuration object and use it as input

This command creates an EAP configuration object configured to use an EAP-TLS authentication method and to verify the server identity. The configuration object is

stored in a variable named \$B.

PS C:\>\$B = New-EapConfiguration -TIs -VerifyServerIdentity

This command creates an EAP configuration object configured to use the TTLS authentication method, and specifies the *TunneledEapAuthMethod* parameter to use the

EapConfigXmlStream created by the first EAP configuration object as the tunnel EAP authentication method.

PS C:\>\$A = New-EapConfiguration -Ttls -TunneledEapAuthMethod \$B.EapConfigXmlStream

This set of commands creates an EAP configuration object customized with a TTLS authentication method which uses EAP-TLS as the tunneled client authentication method.

Example 7: Create an EAP configuration object that uses PEAP authentication

PS C:\> \$A = New-EapConfiguration -Peap

This command creates an EAP configuration object customized by the Peap parameter to use the PEAP authentication method. The configuration object is stored in a

variable named \$A.

Example 8: Create a customized EAP configuration object and use it as input

This command creates the EAP configuration object and stores it in the variable named \$B. The EAP configuration object is customized to use the TLS authentication

method by the *Tls* parameter, and configured to verify the identity of the server by the *VerifyServerIdentity* parameter. This command implicitly configures a smart

card to be used for authentication.

PS C:\>\$B = New-EapConfiguration -Tls -VerifyServerIdentity

This command uses the *EapConfigXmlStream* method of the EAP configuration object created in the previous command to specify the value for the *TunneledEapAuthMethod*

parameter. This command also specifies that PEAP is the authentication method, as specified by the *Peap* parameter; that NAP is enabled for PEAP, as specified by the

EnableNap parameter; and that *FastReconnect* is enabled, as specified by the *FastReconnect* parameter.

PS C:\>\$a = New-EapConfiguration -Peap -EnableNap -FastReconnect \$True -VerifyServerIdentity -TunneledEapAuthMethod \$b.EapConfigXmlStream

This set of commands creates an EAP configuration object customized with the TLS authentication method, and then uses its EapConfigXmlStream object as the tunneled authentication method.

RELATED LINKS

Online Version:

https://learn.microsoft.com/powershell/module/vpnclient/new-eapconfiguration?view=windowsserver2022-ps&wt.mc_id=ps-g ethelp

Add-VpnConnection

Set-VpnConnection