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PowerShell Get-Help on command 'Enable-TlsCipherSuite'

PS C:\Users\wahid> Get-Help Enable-TlsCipherSuite

NAME

    Enable-TlsCipherSuite

SYNOPSIS

    Enables a TLS cipher suite.

SYNTAX

    Enable-TlsCipherSuite [-Name] <System.String> [[-Position] <System.UInt32>]

    [-Confirm] [-WhatIf] [<CommonParameters>]

DESCRIPTION

    The `Enable-TlsCipherSuite` cmdlet enables a cipher suite. This cmdlet adds

    the cipher suite to the list of Transport Layer Security (TLS) protocol cipher

    suites for the computer. If you do not specify a position in the list, this

    cmdlet adds it at the lowest position. No restart is required for changes to

    take effect.

    If a cipher suite is not enabled for TLS based secure channel (Schannel)

    registry settings, then the cipher suite is not used.

This cmdlet is based on Cryptography Next Generation (CNG) Cryptographic

Configuration. Schannel registry settings and settings specified by means of

Security Support Provider Interface (SSPI) by each app can override CNG

Cryptographic Configuration. Other settings under `HKEY_LOCAL_MACHINE\SYSTEM\Cu

rrentControlSet\Control\SecurityProviders\SCHANNEL` can also configure cipher

suites. These settings can impact whether a cipher suite can be used. For

example, disabling of SHA hashes supported by TLS disables the corresponding

cipher suites. Additionally, applications can limit the algorithms using SSPI.

For more information about TLS settings, see How to restrict the use of

certain cryptographic algorithms and protocols in Schannel.dll

(https://support.microsoft.com/kb/245030).

PARAMETERS

  -Name <System.String>

    Specifies the name of the TLS cipher suite to enable.

  -Position <System.UInt32>

    Specifies the position at which to insert the cipher suite in the ordered

    list of TLS cipher suites. The cmdlet inserts the cipher suite at the

    position that this parameter specifies, ahead of any existing cipher

    suites.

    Specify a value of 0 or CRYPT_PRIORITY_TOP to insert the function at the

    top of the list. Specify a value of 4294967295 or 0xFFFFFFFF or

    CRYPT_PRIORITY_BOTTOM to insert the function at the end of the list.

  -Confirm <System.Management.Automation.SwitchParameter>

    Prompts you for confirmation before running the cmdlet.

  -WhatIf <System.Management.Automation.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: Enable a cipher suite ---------------

Enable-TlsCipherSuite -Name TLS_DHE_DSS_WITH_AES_256_CBC_SHA

This command enables cipher suite named TLS_DHE_DSS_WITH_AES_256_CBC_SHA. This

command adds the cipher suite the TLS cipher suite list as the lowest priority.

--- Example 2: Enable a cipher suite as the lowest priority ---

Enable-TlsCipherSuite -Name TLS_DHE_DSS_WITH_AES_256_CBC_SHA -Position

4294967295

This command enables cipher suite named TLS_DHE_DSS_WITH_AES_256_CBC_SHA. This

command adds the cipher suite the TLS cipher suite list as the lowest

priority. Unlike the first example, this command explicitly specifies position

number 4294967295, which is the value of CRYPT_PRIORITY_BOTTOM.

--- Example 3: Enable a cipher suite as the highest priority ---

Enable-TlsCipherSuite -Name TLS_DHE_DSS_WITH_AES_256_CBC_SHA -Position 0

This command enables cipher suite named `TLS_DHE_DSS_WITH_AES_256_CBC_SHA`.

This command adds the cipher suite the TLS cipher suite list at position 0,

which is the highest priority.

REMARKS

    To see the examples, type: "get-help Enable-TlsCipherSuite -examples".

    For more information, type: "get-help Enable-TlsCipherSuite -detailed".

    For technical information, type: "get-help Enable-TlsCipherSuite -full".

For online help, type: "get-help Enable-TlsCipherSuite -online"