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Windows PowerShell Get-Help on Cmdlet 'Enable-TlsCipherSuite'

PS:\>Get-HELP Enable-TlsCipherSuite -Full

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\CurrentControlSet\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.

Required? true

Position? 1

Default value None

Accept pipeline input? True (ByPropertyName, ByValue)

Accept wildcard characters? false

-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.

Required? false

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Position? 2
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-Confirm <System.Management.Automation.SwitchParameter>

Prompts you for confirmation before running the cmdlet.

Required? false
Position? named
Default value False
Accept pipeline input? False
Accept wildcard characters? false

-WhatIf <System.Management.Automation.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

NOTES

----- 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.

RELATED LINKS

	Online	Version:
https://learn.microsoft.com/powershell/module/tls/enable-tlsciphersuite?view=windowsserver2022-ps&wt.mc_id=ps-gethelp		
Disable-TlsCipherSuite		
Get-TlsCipherSuite		

