



python



PowerShell

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PowerShell Get-Help on command 'Get-TlsCipherSuite'

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

NAME

Get-TlsCipherSuite

SYNOPSIS

Gets the TLS cipher suites for a computer.

SYNTAX

Get-TlsCipherSuite [[-Name] <System.String>] [<CommonParameters>]

DESCRIPTION

The `Get-TlsCipherSuite` cmdlet gets an ordered collection of cipher suites for a computer that Transport Layer Security (TLS) can use.

For more information about the TLS cipher suites, see the documentation for the `Enable-TlsCipherSuite` cmdlet or type `Get-Help Enable-TlsCipherSuite`.

For more information about protocol versions , see BCRYPT_KDF_TLS_PRF (L"TLS_PRF") (/windows/desktop/api/bcrypt/nf-bcrypt-bcryptderivekey#bcrypt_kdf_tls_prf-Itls_prf).

PARAMETERS

-Name <System.String>

Specifies the name of the TLS cipher suite to get. The cmdlet gets cipher suites that match the string that this cmdlet specifies, so you can specify a partial name. The name match is case sensitive.

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, see [about_CommonParameters \(https://go.microsoft.com/fwlink/?LinkID=113216\)](https://go.microsoft.com/fwlink/?LinkID=113216).

----- Example 1: Get all cipher suites -----

Get-TlsCipherSuite

```
KeyType           : 0
Certificate        : RSA
MaximumExchangeLength : 65536
MinimumExchangeLength : 0
Exchange          : ECDH
HashLength        : 0
Hash              :
CipherBlockLength  : 16
CipherLength       : 256
BaseCipherSuite    : 49200
CipherSuite        : 49200
Cipher            : AES
Name               : TLS_ECDHE_RSA_WITH_AES_256_GCM_SHA384
Protocols          : {771}
```

KeyType : 0
Certificate : RSA
MaximumExchangeLength : 65536
MinimumExchangeLength : 0
Exchange : ECDH
HashLength : 0
Hash :
CipherBlockLength : 16
CipherLength : 128
BaseCipherSuite : 49199
CipherSuite : 49199
Cipher : AES
Name : TLS_ECDHE_RSA_WITH_AES_128_GCM_SHA256
Protocols : {771}

This command gets all TLS cipher suites for the computer.

----- Example 2: Get the cipher suites that match a string -----

Get-TlsCipherSuite -Name AES

KeyType : 0
Certificate : ECDSA
MaximumExchangeLength : 65536
MinimumExchangeLength : 0
Exchange : ECDH
HashLength : 0
Hash :
CipherBlockLength : 16
CipherLength : 256
BaseCipherSuite : 49196
CipherSuite : 49196
Cipher : AES
Name : TLS_ECDHE_ECDSA_WITH_AES_256_GCM_SHA384

Protocols : {771, 65277}

KeyType : 0
Certificate : ECDSA
MaximumExchangeLength : 65536
MinimumExchangeLength : 0
Exchange : ECDH
HashLength : 0
Hash :
CipherBlockLength : 16
CipherLength : 128
BaseCipherSuite : 49195
CipherSuite : 49195
Cipher : AES
Name : TLS_ECDHE_ECDSA_WITH_AES_128_GCM_SHA256
Protocols : {771, 65277}

This command gets all the cipher suites that have names that contain the string `AES`. Note that the name match is case sensitive and this command returns no output for the name `aes`. The output includes a field for the TLS/SSL protocols supported by the cipher. See Cipher Suites in TLS/SSL (Schannel SSP) (</windows/desktop/secauthn/cipher-suites-in-schannel>) for more information.

REMARKS

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

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

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

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