



Windows PowerShell Get-Help on Cmdlet 'Get-NetTCPConnection'

PS:\>Get-HELP Get-NetTCPConnection -Full

NAME

Get-NetTCPConnection

SYNOPSIS

Gets TCP connections.

SYNTAX

```
Get-NetTCPConnection [[-LocalAddress] <String[]>] [[-LocalPort] <UInt16[]>] [-AppliedSetting {Internet | Datacenter |
Compat | DatacenterCustom | InternetCustom}]
[-AsJob] [-CimSession <CimSession[]>] [-CreationTime <DateTime[]>] [-OffloadState {InHost | Offloading | Offloaded |
Uploading}] [-OwningProcess <UInt32[]>]
[-RemoteAddress <String[]>] [-RemotePort <UInt16[]>] [-State {Closed | Listen | SynSent | SynReceived | Established |
FinWait1 | FinWait2 | CloseWait | Closing |
LastAck | TimeWait | DeleteTCB | Bound}] [-ThrottleLimit <Int32>] [<CommonParameters>]
```

DESCRIPTION

The Get-NetTCPConnection cmdlet gets current TCP connections. Use this cmdlet to view TCP connection properties such as local or remote IP address, local or remote

port, and connection state.

PARAMETERS

-AppliedSetting <AppliedSetting[]>

Specifies an array of values of applied settings. The cmdlet gets connections that match the settings that you specify.

The acceptable values for this parameter

are:

- Internet

- Datacenter

- Compat

- Custom

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-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
Accept pipeline input?	False
Accept wildcard characters?	false

`-CreationTime <DateTime[]>`

Specifies an array of `DateTime` objects. To get a `DateTime` object, use the `Get-Date` cmdlet.

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

`-LocalAddress <String[]>`

Specifies an array of local IP addresses. The cmdlet gets connections for the addresses that you specify.

Required?	false
Position?	0
Default value	None
Accept pipeline input?	True (ByPropertyName)
Accept wildcard characters?	false

`-LocalPort <UInt16[]>`

Specifies an array of local ports. The cmdlet gets connections for the ports that you specify.

Required? false
Position? 1
Default value None
Accept pipeline input? False
Accept wildcard characters? false

-OffloadState <OffloadState[]>

Specifies the offload state of a TCP connection.

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

-OwningProcess <UInt32[]>

Specifies the PID of the owning process of a TCP connection.

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

-RemoteAddress <String[]>

Specifies an array of remote IP addresses. The cmdlet gets connections for the addresses that you specify.

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

-RemotePort <UInt16[]>

Specifies an array of remote ports. The cmdlet gets connections for the ports that you specify.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-State <State[]>

Specifies an array of TCP states. The cmdlet gets connections that match the states that you specify. The acceptable values for this parameter are:

- Bound

- Closed

- CloseWait

- Closing

- DeleteTCB

- Established

- FinWait1

- FinWait2

- LastAck

- Listen

- SynReceived

- SynSent

- TimeWait

Required? false

Position? named

Default value None

Accept pipeline input? False

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 PowerShell 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

<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

None

OUTPUTS

Microsoft.Management.Infrastructure.CimInstance#root\StandardCimv2\MSFT_NetTCPConnection

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.

NOTES

----- Example 1: Get all connections -----

```
PS C:\>Get-NetTCPConnection
```

This command gets all current TCP connections.

----- Example 2: Get established connections -----

```
PS C:\>Get-NetTCPConnection -State Established
```

This command gets all TCP connections that have an Established state.

----- Example 3: Get Internet TCP connections -----

```
PS C:\>Get-NetTCPConnection -AppliedSetting Internet
```

This command gets all TCP connections that use a TCP applied setting of Internet.

----- Example 4: Get Owning Process -----

```
PS C:\>Get-NetTcpConnection -OwningProcess 18948
```

This command gets all Owing Process with PID 18948

RELATED LINKS

Online

Version:

https://learn.microsoft.com/powershell/module/nettcpip/get-nettcpconnection?view=windowsserver2022-ps&wt.mc_id=ps-gethelp