



python



PowerShell

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### **PowerShell Get-Help on command 'Connect-IscsiTarget'**

**PS C:\Users\wahid> Get-Help Connect-IscsiTarget**

#### NAME

Connect-IscsiTarget

#### SYNOPSIS

Establishes a connection between the local iSCSI initiator and an iSCSI target device.

#### SYNTAX

```
Connect-IscsiTarget [-AsJob] [-AuthenticationType <String>] [-ChapSecret  
<String>] [-ChapUsername <String>] [-CimSession <CimSession[]>  
[-InitiatorInstanceName <String>] [-InitiatorPortalAddress <String>  
-InputObject <CimInstance[]> [-IsDataDigest <Boolean>] [-IsHeaderDigest  
<Boolean>] [-IsMultipathEnabled <Boolean>] [-ReportToPnP <Boolean>  
[-TargetPortalAddress <String>] [-TargetPortalPortNumber <UInt16>  
[-ThrottleLimit <Int32>] [<CommonParameters>]
```

```
Connect-IscsiTarget [-AsJob] [-AuthenticationType <String>] [-ChapSecret  
<String>] [-ChapUsername <String>] [-CimSession <CimSession[]>  
[-InitiatorInstanceName <String>] [-InitiatorPortalAddress <String>  
[-IsDataDigest <Boolean>] [-IsHeaderDigest <Boolean>] [-IsMultipathEnabled
```

<Boolean>] [-IsPersistent <Boolean>] -NodeAddress <String> [-ReportToPnP  
<Boolean>] [-TargetPortalAddress <String>] [-TargetPortalPortNumber <UInt16>]  
[-ThrottleLimit <Int32>] [<CommonParameters>]

## DESCRIPTION

The Connect-IscsiTarget cmdlet initiates a connection to the specified iSCSI target device.

## PARAMETERS

-AsJob [<SwitchParameter>]

Runs the cmdlet as a background job. Use this parameter to run commands that take a long time to complete.

The cmdlet immediately returns an object that represents the job and then displays the command prompt. You can continue to work in the session while the job completes. To manage the job, use the `\*-Job` cmdlets. To get the job results, use the Receive-Job (<https://go.microsoft.com/fwlink/?LinkID=113372>)cmdlet.

For more information about Windows PowerShell background jobs, see about\_Jobs (<https://go.microsoft.com/fwlink/?LinkID=113251>).

-AuthenticationType <String>

Specifies the type of authentication to use when logging into the target.

The acceptable values for this parameter are:

- NONE

- ONEWAYCHAP

- MUTUALCHAP

The default value is None. Authentication type must be in uppercase.

-ChapSecret <String>

Specifies the CHAP secret to use when establishing a connection authenticated by using CHAP.

-ChapUsername <String>

Specifies the user name to use when establishing a connection authenticated by using Mutual CHAP.

-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.

-InitiatorInstanceName <String>

Specifies the name of the initiator instance that the iSCSI initiator service uses to send SendTargets requests to the target portal. If no instance name is specified, the iSCSI initiator service chooses the initiator instance.

-InitiatorPortalAddress <String>

Specifies the IP address or DNS name that is associated with the portal.

-InputObject <CimInstance[]>

Specifies the input to this cmdlet. You can use this parameter, or you can pipe the input to this cmdlet.

-IsDataDigest <Boolean>

Indicates whether this cmdlet enables data digest when the initiator logs into the target portal. If you do not specify this parameter, the digest setting is determined by the initiator kernel mode driver.

-IsHeaderDigest <Boolean>

Indicates whether this cmdlet enables header digest when the initiator logs into the target portal. If you do not specify this parameter, the digest setting is determined by the initiator kernel mode driver.

-IsMultipathEnabled <Boolean>

Indicates whether the initiator has enabled Multipath I/O (MPIO) and uses it when logging into the target portal.

-IsPersistent <Boolean>

Indicates whether the session is to be automatically connected after each restart.

-NodeAddress <String>

Specifies the IQN of the discovered target.

-ReportToPnP <Boolean>

Indicates whether the operation is reported to PNP.

-TargetPortalAddress <String>

Specifies the IP address or DNS name of the target portal.

-TargetPortalPortNumber <UInt16>

Specifies the TCP/IP port number for the target portal. By default, the port number is 3260.

-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.

#### <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: Disconnect and connect to an iSCSI target -----

The first command gets iSCSI targets by using the **Get-IscsiTarget** cmdlet. The second command gets iSCSI targets, and then stores them in the `$Target` variable. The third command disconnects the iSCSI target identified by its **NodeAddress** by using the **Disconnect-IscsiTarget** cmdlet. The final command connects the iSCSI target identified by its **NodeAddress**.

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

```
IsConnected NodeAddress
```

```
-----
```

```
True iqn.1991-05.com.contoso:testiscsi-deepcore-target
```

```
PS C:\> $Target = Get-IscsiTarget
```

```
PS C:\> Disconnect-IscsiTarget -NodeAddress $Target.NodeAddress
```

```
Confirm
```

```
Are you sure you want to perform this action?
```

```
Performing operation " on Target ".
```

```
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "Y"): **Y**
```

```
PS C:\> Connect-IscsiTarget -NodeAddress $Target.NodeAddress
```

```
AuthenticationType : NONE
```

```
InitiatorInstanceName : ROOT\ISCSIPRT\0000_0
```

InitiatorNodeAddress : iqn.1991-05.com.contoso:deepcore.contoso.com  
InitiatorPortalAddress :  
InitiatorSideIdentifier : 400001370000  
IsConnected : True  
IsDataDigest : False  
IsDiscovered : True  
IsHeaderDigest : False  
IsMultipathEnabled : False  
IsPersistent : True  
NumberOfConnections : 1  
SessionIdentifier : fffffa800d008430-4000013700000000b  
TargetNodeAddress : iqn.1991-05.com.contoso:testiscsi-deepcore-target  
TargetSideIdentifier : 0100

This example connects an iSCSI target, collects information about the target, and stores it in a variable, disconnects, and then connects using this cmdlet.

#### REMARKS

To see the examples, type: "get-help Connect-IscsiTarget -examples".

For more information, type: "get-help Connect-IscsiTarget -detailed".

For technical information, type: "get-help Connect-IscsiTarget -full".

For online help, type: "get-help Connect-IscsiTarget -online"