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Windows PowerShell Get-Help on Cmdlet 'Connect-IscsiTarget'

PS:\>Get-HELP Connect-IscsiTarget -Full

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 cmdlet.
<https://go.microsoft.com/fwlink/?LinkID=113372>

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

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-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.

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

-ChapSecret <String>

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

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

-ChapUsername <String>

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

Required? false
Position? named
Default value None
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

[Get-CimSession](<https://go.microsoft.com/fwlink/?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

-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.

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

-InitiatorPortalAddress <String>

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

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

-InputObject <CimInstance[]>

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

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-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.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-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.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-IsMultipathEnabled <Boolean>

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

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-IsPersistent <Boolean>

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

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-NodeAddress <String>

Specifies the IQN of the discovered target.

Required? true

Position? named

Default value None

Accept pipeline input? True (ByPropertyName)

Accept wildcard characters? false

-ReportToPnP <Boolean>

Indicates whether the operation is reported to PNP.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-TargetPortalAddress <String>

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

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

-TargetPortalPortNumber <UInt16>

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

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#MSFT_IscsiSession

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: 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 :

InitiatorSidIdentifier : 400001370000

IsConnected : True

IsDataDigest : False

IsDiscovered : True

IsHeaderDigest : False

IsMultipathEnabled : False

IsPersistent : True

NumberOfConnections : 1

SessionIdentifier : fffffa800d008430-400001370000000b

TargetNodeAddress : iqn.1991-05.com.contoso:testiscsi-deepcore-target

TargetSidIdentifier : 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.

RELATED LINKS

Online

Version:

https://learn.microsoft.com/powershell/module/iscsi/connect-iscsitarget?view=windowsserver2022-ps&wt.mc_id=ps-gethelp

iSCSI on TechNet

Storage on TechNet <https://go.microsoft.com/fwlink/?linkid=191356>

Disconnect-IscsiTarget

Get-IscsiTarget