



Getting Started

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Connecting to Cisco UCS Central

Step 1 Launch Cisco UCS Central PowerTool from the desktop shortcut

Step 2 View all cmdlets, functions, and aliases supported by the Cisco UCS Central PowerTool.

```
Get-Command -Module Cisco.UCSCentral
Get-Command -Module Cisco.UCSCentral | group CommandType
Get-Command -Module Cisco.UCSCentral | measure
```

Step 3 Connect to UCS Central system.

```
$handle = Connect-UcsCentral <ip or hostname> -NotDefault
```

Note If sign-in is successful `Connect-UcsCentral`, by default, the UCS Central handle is added to the Default UCS Central list, unless the `-NotDefault` option is specified. Every cmdlet that operates on UCS Central takes the `-UcsCentral` parameter, where the handle can be specified.

Step 4 Use the following cmdlets:

a) Get org objects.

```
Get-UcsCentralOrg -UcsCentral $handle
```

Step 5 Disconnect.

```
Disconnect-UcsCentral -UcsCentral $handle
```

Default UCS Central

If no handle or name is specified, the UCS Central handle is added to a Default UCS Central list. Unless the `-UcsCentral` parameter is specified, the first cmdlet in the pipeline operates on the default UCS Central list.

```
Connect-UcsCentral <ip or hostname>
```

Get the Default UCS Central list.

```
Get-UcsPSSession
```

Get the set of all chassis objects.

```
Get-UcsCentralChassis
```

Get the object pertaining to chassis 1.

```
Get-UcsCentralChassis -Id 1
```

Get the set of blades, pertaining to chassis 1.

```
Get-UcsCentralChassis -Id 1 | Get-UcsCentralBlade
```

Disconnect.

```
Disconnect-UcsCentral
```

Default UCS Central List with Multiple UCS Central Systems

PowerTool cmdlets can work with multiple UCS Central systems by specifying multiple handles.

Connect to a Cisco UCS Central system.

```
$handle1 = Connect-UcsCentral <ip1> -NotDefault
```

```
$handle2 = Connect-UcsCentral <ip2> -NotDefault
```

```
Disconnect-UcsCentral-UcsCentral $handle1,$handle2
```

By default, multiple Cisco UCS Central handles are not allowed in Default UCS Central. You can be override using the `Set-UcsPowerToolConfiguration` cmdlet.

```
Get-UcsPowerToolConfiguration
```

```
Set-UcsPowerToolConfiguration -SupportMultipleDefaultUcs $true
```

```
Connect-UcsCentral <ip1>
```

```
Connect-UcsCentral <ip2>
```

```
Get-UcsPSSession
```

```
Disconnect-UcsCentral
```

Connect to multiple Cisco UCS Central systems using the same login credentials.

```
$user = "<username>"
```

```
$password = "<password>" | ConvertTo-SecureString -AsPlainText -Force
$cred = New-Object System.Management.Automation.PSCredential($user, $password)
$servers = @("<ucsc1>", "<ucsc2>", "<ucsc3>")
Connect-UcsCentral $servers -Credential $cred
```

Credentials To and From a File

```
Connect-UcsCentral <ip1>
```

```
Connect-UcsCentral <ip2>
```

Credentials can be stored to a file. The stored credentials are encrypted with a specified Key.

```
Export-UcsPSSession -LiteralPath C:\work\labs.xml
```

```
Disconnect-UcsCentral
```

Login can be initiated from credentials stored in a file.

```
Connect-UcsCentral -LiteralPath C:\work\labs.xml
```

Log in to an extra system and add the credentials to the file.

```
Connect-UcsCentral <ip3>
```

```
Export-UcsPSSession -Path C:\work\lab?.xml -Merge
```

SSL Handling

When connected to Cisco UCS Central server, the server does not recognize any valid certificates. The, the connection depends on `InvalidCertificateAction`. `InvalidCertificateAction` is set to `Ignore` by default. By default PowerTool is configured to establish the connection without considering the validity of the certificate.

You can override this using the `Set-UcsPowerToolConfiguration` cmdlet.

```
Get-UcsPowerToolConfiguration
```

```
Set-UcsPowerToolConfiguration -InvalidCertificateAction Fail
```

Status	Description
Fail	The cmdlet does not establish a connection if the certificate is not valid.
Ignore	The cmdlet establishes the connection without considering the validity of the certificate.
Default	(Windows default) The cmdlet establishes a connection if the certificate is valid.

Aliases

Aliases are the simplified cmdlets which can be used to perform Cisco UCS Central operations.

```
gal | ? {$_Name -like "*-UcsCentral*" } | select Name
```

Aliases	Cmdlets
Acknowledge-UcsCentralBlade	Set-UcsCentralComputePhysicalOperation -Lc rediscover
Acknowledge-UcsCentralChassis	Set-UcsCentralEquipmentChassisOperation -AdminState re-acknowledge
Acknowledge-UcsCentralFault	Confirm-UcsCentralFault
Acknowledge-UcsCentralFex	Set-UcsCentralEquipmentFexOperation -AdminState re-acknowledge
Acknowledge-UcsCentralRackUnit	Set-UcsCentralComputePhysicalOperation -Lc rediscover
Acknowledge-UcsCentralServerUnit	Set-UcsCentralComputePhysicalOperation -Lc rediscover
Acknowledge-UcsCentralSlot	Set-UcsCentralFabricComputeSlotEpOperation -AdminState reacknowledge
Add-UcsCentralMo	Add-UcsCentralManagedObject
Associate-UcsCentralServiceProfile	Connect-UcsCentralServiceProfile
Compare-UcsCentralMo	Compare-UcsCentralManagedObject
Decommission-UcsCentralBlade	Set-UcsCentralComputePhysicalOperation -Lc decommission
Decommission-UcsCentralChassis	Set-UcsCentralEquipmentChassisOperation -AdminState decommission
Decommission-UcsCentralFex	Set-UcsCentralEquipmentFexOperation -AdminState decommission
Decommission-UcsCentralRackUnit	Set-UcsCentralComputePhysicalOperation -Lc decommission
Decommission-UcsCentralServerUnit	Set-UcsCentralComputePhysicalOperation -Lc decommission
Disassociate-UcsCentralServiceProfile	Disconnect-UcsCentralServiceProfile
Get-UcsCentralMo	Get-UcsCentralManagedObject
Get-UcsCentralUcsDomain	Get-UcsCentralExtPolClient
Recommission-UcsCentralBlade	Set-UcsCentralFabricComputePhEpOperation -AdminState enabled

Recommission-UcsCentralChassis	Set-UcsCentralFabricSwChPhEpOperation -AdminState enabled
Recommission-UcsCentralFex	Set-UcsCentralFabricSwChPhEpOperation -AdminState enabled
Recommission-UcsCentralRackUnit	Set-UcsCentralFabricComputePhEpOperation -AdminState enabled
Recommission-UcsCentralServerUnit	Set-UcsCentralFabricComputePhEpOperation -AdminState enabled
Remove-UcsCentralBlade	Set-UcsCentralComputePhysicalOperation -Lc remove
Remove-UcsCentralCartridge	Set-UcsCentralComputeCartridgeOperation -Lc remove
Remove-UcsCentralFex	Set-UcsCentralEquipmentFexOperation -AdminState remove
Remove-UcsCentralMo	Remove-UcsCentralManagedObject
Remove-UcsCentralRackUnit	Set-UcsCentralComputePhysicalOperation -Lc remove
Set-UcsCentralMo	Set-UcsCentralManagedObject
Sync-UcsCentralMo	Sync-UcsCentralManagedObject

