



Cisco UCS Manager Plug-in for VMware vSphere HTML Client User Guide, Release 3.x

First Published: 2018-09-28

Last Modified: 2022-10-10

Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
<http://www.cisco.com>
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883



CONTENTS

CHAPTER 1	Overview	1
	About the Cisco UCS Manager Plug-In for vSphere HTML Client	1
	System Requirements	1

CHAPTER 2	Installing the Plug-in and Registering the UCS Domains	3
	User Privileges	3
	Installing the Cisco UCS Manager Plug-in for vSphere HTML Client	4
	Upgrading vCenter from 7.x to 7.0u3	5
	Upgrading vCenter from 6.7 to 7.x	6
	Upgrading Cisco UCS Manager Plug-In for vSphere HTML Client	7
	Registering the UCS Domains	8

CHAPTER 3	Viewing Information Using the Plug-in	11
	Viewing the UCS Domain Details	11
	Viewing the Chassis Details	12
	Viewing the Fabric Interconnect Details	13
	Viewing the Non ESXi Server Details	14
	Viewing the ESXi Server Details	16
	Viewing the Fabric Extender Details	17
	Viewing Firmware Packages, Tasks, and Host Firmware Details	18

CHAPTER 4	Performing Actions Using the Plug-in	21
	Performing Actions Using the Plug-in	21
	ESXi and Non ESXi Server Actions	22
	Creating Service Profiles for ESXi or Non-ESXi Servers	22
	Managing BIOS Policies	23

Associating Service Profiles with the Servers	24
Managing Host Firmware Pack	24
Disassociating a Service Profile from a ESXi or Non ESXi Server	25
Launching the KVM Console of an ESXi Server	25
Launching the UCSM User Interface for an ESXi Server	26
Service Profile Templates Actions	26
Managing Host Firmware Pack for Service Profile Templates	26
Managing Server Pools	27
Creating Service Profiles From Templates	27
Service Profile Actions	28
Managing Host Firmware Pack for a Service Profile	28
Acknowledging Pending Activities	28
Firmware Management Actions	29
Uploading Firmware Packages	29
Modifying Package Version for Host Firmware Pack	30
Deleting Uploaded Task	31
Deleting Firmware Package	32
UCS Domain Actions	32
Reloading UCS Domain Inventory	32

CHAPTER 5
Using the Cisco UCS Provider for Proactive High Availability (HA) 35

Cisco UCS Provider for Proactive HA	35
Registering a Cisco UCS Provider	36
Enabling Cisco UCS Provider	37
Unregistering a Cisco UCS Provider	38
Modifying Cisco UCS Failure Conditions	38
List of Cisco UCS Provider Failure Conditions for Proactive HA	39
Adding Custom Faults for Proactive HA Monitoring	41

CHAPTER 6
Troubleshooting 43

Troubleshooting	43
-----------------	----



CHAPTER 1

Overview

This chapter includes the following sections:

- [About the Cisco UCS Manager Plug-In for vSphere HTML Client, on page 1](#)
- [System Requirements, on page 1](#)

About the Cisco UCS Manager Plug-In for vSphere HTML Client

Cisco UCS Manager plug-in is a VMware vSphere HTML client plug-in, which enables virtualization administrator to view, manage and monitor the Cisco UCS physical infrastructure. The plug-in provides a physical view of the UCS hardware inventory on the HTML client. You can perform the following tasks using the plug-in:

- View Cisco UCS physical hierarchy
- View inventory, installed firmware, faults, power and temperature statistics
- Map the ESXi host to the physical server
- Manage firmware for B and C series servers
- View VIF paths for servers
- Launch the Cisco UCS Manager GUI
- Launch the KVM consoles of UCS servers
- Switch the existing state of the locator LEDs

System Requirements

Ensure that the system meets the following requirements:

- .Net Framework 4.5 or higher
- VMware PowerCLI 5.1 or higher to run the registration tool
- VMware vCenter 6.7 or higher

Please check [VMware vSphere HTML Client Releases, on page 2](#).

VMware vSphere HTML Client Releases

Cisco UCS Manager plug-in is compatible with the following vSphere HTML Client releases:

VMware vSphere HTML Client Version	Cisco UCS Manager Plugin for VMware vSphere Version
6.7	3.0(1), 3.0(2), 3.0(3), 3.0(4), 3.0(5), 3.0(6)
7.0	3.0(4), 3.0(5), 3.0(6)
7.0u1, 7.0u2	3.0(5), 3.0(6)
7.0u3	3.0(5), 3.0(6)



Note VMware vSphere HTML Client Version 7.0u3 is supported partially.

Supported Cisco UCS Manager Releases

Cisco UCS Manager plug-in is compatible with the following UCS Manager releases:

- Release 3.2 and later



CHAPTER 2

Installing the Plug-in and Registering the UCS Domains

This chapter includes the following sections:

- [User Privileges, on page 3](#)
- [Installing the Cisco UCS Manager Plug-in for vSphere HTML Client, on page 4](#)
- [Upgrading vCenter from 7.x to 7.0u3, on page 5](#)
- [Upgrading vCenter from 6.7 to 7.x, on page 6](#)
- [Upgrading Cisco UCS Manager Plug-In for vSphere HTML Client, on page 7](#)
- [Registering the UCS Domains, on page 8](#)

User Privileges

Cisco UCS Manager Plug-In for vSphere HTML client enables you to register and manage Cisco UCS domains. When you install Cisco UCS Manager plug-in, register the UCS domains individually using UCS Manager user account. Depending on the UCS Manager user privileges, you used while registering the UCS domain you can perform the actions. Also, each plug-in action supports the same privileges as Cisco UCS Manager.

For example, if you registered a UCS domain with admin privileges, you can perform actions on that domain using the plug-in. You can perform various actions on the servers, firmware, UCS domains, service profiles, and service profile templates. Whereas, if you registered a UCS domain with read-only privileges, you can launch Cisco UCS Manager GUI and can view the domains that you registered.

When you log in to the Cisco UCS Manager plug-in, you can view the domains that you have registered. You cannot edit or unregister the UCS domains registered by users with different vCenter roles or by the users who registered the UCS domain. Only a user with same vCenter role and also has registered the UCS domain, has the privilege to edit or unregister the plug-in.

However, you can view the domains registered by other users if you have the extension privilege and the domain registered is publicly visible.

Installing the Cisco UCS Manager Plug-in for vSphere HTML Client

Before you begin

- If you have already registered for proactive HA in flex, then un-register it and then perform this procedure.
- Plug-in package hosted on HTTP or HTTPS server. Ensure that the HTTP or HTTPS URL of the plug-in zip file is reachable from both vCenter server and the machine from which the plug-in is registered
- Close all the HTML client browser sessions

Procedure

Step 1 On the Cisco.com download site for Cisco UCS Management Partner Ecosystem Software, download the Cisco UCS Manager plug-in and the latest registration tool zip file (version v1.2.0 or higher).

The files are stored in your local download folder.

Step 2 Unzip the registration tool and double-click to launch it. Cisco UCS plug-in Registration Tool screen appears.

Step 3 To register a new plug-in, populate the following fields:

Note If you are reregistering, the following fields are already populated.

- **IP/Hostname**—IP or hostname of the vCenter server
- **Username**—Username of the vCenter server
- **Password**—Password of the vCenter server
- **Plugin location**—HTTPS/HTTP URL of the plugin zip file. For example, `https://10.1x.1x.1/plugins/ucs/ucs-vcplugin-1.0.1.zip`

Note If you want to unregister a UCS Manager plug-in, click the **Unregister** plug-in radio button, and complete the fields.

You cannot install both flex and HTML. You should install either one of them.

Step 4 Click **Submit**.

Important When the plug-in is hosted on HTTP URL, you are prompted to take the following action:

If the plugin is hosted on an HTTP URL, a configuration file named "webclient.properties" must be modified to add "allowHttp=true."

The default location of file for vSphere HTML/Web client 6.x and the higher releases are:

HTML 7.x:

VCSA: /etc/vmware/vsphere-ui

HTML 6.x:

Windows: C:\ProgramData\VMware\VCenterServer\cfg\vsphere-ui\

VCSA: /etc/vmware/vsphere-ui

The vSphere HTML client service must be restarted after this modification.

Note If you are reregistering, you may see **Already Registered** warning dialog box, with the following message: Cisco UCS plug-in 3.x is already registered. If the plug-in files are already downloaded, they won't be downloaded again until they are removed manually and vSphere HTML client service is restarted.

Review the message and click **OK** to continue.

Step 5 Restart the HTML client service.

Note If you encounter any error, relaunch the web browser session. If the error continues, restart the HTML client service.

The Cisco UCS Manager plug-in is successfully registered.

Upgrading vCenter from 7.x to 7.0u3

Perform the below steps before you upgrade vCenter from 7.x to 7.0u3:



Caution Upgrading the vCenter server might result in loss of plug-in data. Back up the plug-in data before you upgrade.



Note Upgrade and launch the Cisco UCS html plug-in before enabling FIPS on vCenter 7.0u2.

After upgrading vCenter from 7.x to the version 7.0u3, perform the following steps:

Procedure

Step 1 Using SSH, log into vCenter by using root credentials.

Step 2 Change the directory to `cd /usr/lib/vmware-vsphere-ui/server/data`

Step 3 To change the permissions, run the command:

```
chown vsphere-ui:users ucs/
```

Step 4 If plugin files are present in `ucs` folder, then change the directory to `cd /usr/lib/vmware-vmware-uiserver/data/ucs`

Step 5 Run the command:

```
chown vsphere-ui:users *
```

Step 6 Restart the vSphere-ui services with the command:

```
service-control --restart vsphere-ui
```

Upgrading vCenter from 6.7 to 7.x

Perform the below steps before you upgrade vCenter:



Caution Upgrading the vCenter server might result in loss of plug-in data. Back up the plug-in data before you upgrade.



Note Upgrade and launch the Cisco UCS html plug-in before enabling FIPS on vCenter 7.0u2.

Procedure

Step 1 If Cisco UCS Provider for Proactive HA is registered, unregister it.

For more information on how to unregister the Cisco UCS Provider, see [Unregistering a Cisco UCS Provider, on page 38](#).

Step 2 Upgrade to Cisco UCS Manager Plug-in 3.0(4) or above.

To upgrade Cisco UCS Manager Plug-in for vSphere HTML Client, see [Upgrading Cisco UCS Manager Plug-In for vSphere HTML Client, on page 7](#).

Step 3 Launch the Cisco UCS html plug-in.

Step 4 Before you upgrade vCenter, back up the data in the `ucs` folder in the following location on the vCenter server:

```
/usr/lib/vmware-vmware-uiserver/data/ucs
```

Step 5 After the vCenter upgrade,

a) Create the folder `ucs` in the following location on the vCenter server:

```
/usr/lib/vmware-vmware-uiserver/data/ucs
```

b) Copy all the files in the folder `ucs` which you created, except the files `VCregistry.txt` and `VC_HA_Config.properties`, if these files are present.

- c) If the plug-in is not visible, modify the configuration file `webclient.properties` and add the following:

```
allowHttp=true
```

Step 6 Register the Cisco UCS Provider.

For more information on how to register the Cisco UCS Provider, see [Registering a Cisco UCS Provider, on page 36](#).

Step 7 Enable or disable FIPS, if required.

To know more, see [Enable and Disable FIPS on the vCenter Server Appliance](#).

Upgrading Cisco UCS Manager Plug-In for vSphere HTML Client

Perform the below steps to upgrade to Cisco UCS Manager Plug-in.



Caution Upgrading the vCenter server might result in loss of plug-in data. Back up the plug-in data before you upgrade.



Note Upgrade and launch the Cisco UCS html plug-in before enabling FIPS on vCenter 7.0u2.

Procedure

-
- Step 1** On the Cisco.com download site for Cisco UCS Management Partner Ecosystem Software, download the Cisco UCS Manager plug-in and registration tool zip files.
- The files are stored in your local download folder.
- Step 2** If Cisco UCS Provider for Proactive HA is registered, unregister it.
- For more information on how to unregister the Cisco UCS Provider, see [Unregistering a Cisco UCS Provider, on page 38](#).
- Step 3** Double-click the unzipped `Cisco_UCS_Plugin_Registration_Tool_v1-2-3.zip` file to launch the registration setup file.
- Step 4** If the Cisco UCS Manager plug-in is already installed, you are prompted to upgrade the plug-in. Confirm the upgrade and continue with the installation.
- For information on how to install the Cisco UCS plug-in, see [Installing the Cisco UCS Manager Plug-in for vSphere HTML Client, on page 4](#).
- Step 5** Restart the HTML client service.
- Step 6** Launch the Cisco UCS html plug-in.
- Step 7** Once the Cisco UCS plug-in is installed, register the Cisco UCS Provider for Proactive HA.

For more information on how to register the Cisco UCS Provider for Proactive HA, see [Registering a Cisco UCS Provider, on page 36](#).

Step 8 Enable or disable FIPS, if required.



Note Downgrade from any version of Cisco UCS Manager plug-in is not supported. However, to downgrade the plug-in, unregister the running version, register the version you want to use, and restart the vSphere HTML client services.

Direct upgrade from Flex to HTML is not supported. You should first un-register the Flex plug-in and then register HTML plug-in.

Registering the UCS Domains

Using the vSphere HTML client, you can register the UCS domains. You can edit the details, unregister, and reregister the previously registered UCS domains.



Note If a UCS domain is registered with read-only privileges, you cannot perform actions related to the service profiles, service profile templates, and firmware management using the plug-in. Also, you cannot view or edit UCS domains registered by a different user unless you have admin privileges.

Procedure

- Step 1** Launch the vSphere HTML client.
- Step 2** In the **Shortcuts** tab, double-click **Cisco UCS**.
Cisco UCS Management Center view appears.
- Step 3** Click **Register**.
Register UCS Domain dialog box appears.
- Step 4** Enter the following:
- **UCS Hostname/IP**—IP address or the hostname of the UCS domain.
 - **Username**—UCS domain username.
- Note** For LDAP authentication, enter the username in the *ucs-domainname\username* format.
- **Password**—UCS domain password.
 - **Port**—Port number.
 - **SSL**—To use a secure connection to Cisco UCS Manager
 - **Visible to All Users**—Whether to make this domain visible to all users

Step 5 Click **OK**.

Note You may be prompted to accept a certificate. Accept to continue registration.

UCS domain is registered and appears on the list of Registered UCS Domains.

Cisco UCS Management Center also provides the following options:

Button	Description
Unregister	Allows you to unregister a UCS domain.
Edit	Allows you to edit a UCS domain.



CHAPTER 3

Viewing Information Using the Plug-in

This chapter includes the following sections:

- [Viewing the UCS Domain Details, on page 11](#)
- [Viewing the Chassis Details, on page 12](#)
- [Viewing the Fabric Interconnect Details, on page 13](#)
- [Viewing the Non ESXi Server Details, on page 14](#)
- [Viewing the ESXi Server Details, on page 16](#)
- [Viewing the Fabric Extender Details, on page 17](#)
- [Viewing Firmware Packages, Tasks, and Host Firmware Details, on page 18](#)

Viewing the UCS Domain Details

This section describes step to view the details of the registered Cisco UCS domains using the Cisco UCS Manager plug-in.

Procedure

- Step 1** Launch the vSphere HTML client.
- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
- Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
- Step 4** Double-click the domain for which you want view the details.
On the right pane of the window, you can view the following UCS Domain information:

Name	Description
Summary tab	The summary tab displays the following information: <ul style="list-style-type: none">• High level and system specific UCS domain information, such as number of ESXi and non-ESXi servers, number of virtual machines, virtual IPv4 address and so on.• Faults section displays the number of faults categorized based on fault severity.

Name	Description
Monitor tab	Displays faults' information.
Configure tab	<p>The Configure tab displays the following information:</p> <ul style="list-style-type: none"> • Service profiles, service profile templates, server pools, host firmware packages, firmware upload tasks, firmware package bundles and related information on their respective tabs. • Displays the following actions supported on the service profile tab: <ul style="list-style-type: none"> • Pending Activities • Manage Host Firmware Pack • Displays the following actions supported on the service profile template tab: <ul style="list-style-type: none"> • Manage Host Firmware Pack • Manage Server Pool • Create Service Profiles from Template • Displays the following actions supported on the firmware tab: <ul style="list-style-type: none"> • Modify Package Versions • Upload Firmware • Delete Upload Task • Delete Firmware Package
More Objects tab	Displays the chassis, rack mounts and fabric interconnects associated with the domain on their respective tabs.

Viewing the Chassis Details

The following section explains how to view chassis related information using the Cisco UCS Manager plug-in.

Procedure

- Step 1** Launch the vSphere HTML Client.

- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
- Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
- Step 4** Double-click the domain for which you want to view the chassis details.
- Step 5** Click **Chassis**.
A list of all the chassis associated with the UCS domain appears.
- Step 6** Select a chassis from the list for which you want view the details.
On the right pane of the window, you can view the following chassis information:

Name	Description
Summary tab	The summary tab displays the following information: <ul style="list-style-type: none"> • High level chassis information and hardware specific information, such as overall status, number of ESXi and non-ESXi servers, number of virtual machines and so on. • Status grid for chassis having information about thermal, power and configuration state. • Number of faults categorized based on fault severity.
Monitor tab	Displays faults' information and power statistics. The Monitor tab displays the following information: <ul style="list-style-type: none"> • The associated PSUs and related information on the PSU tab. • The associated Input/output modules and related information on the IO Modules tab. • The fan modules and related information on the Fan tab.
More Objects tab	Displays the ESXi and non ESXi servers, and the UCS domain with which the chassis is associated, on their respective tabs.

Viewing the Fabric Interconnect Details

The following section explains how to view fabric interconnect related information using the Cisco UCS Manager plug-in.

Procedure

- Step 1** Launch the vSphere HTML Client.
- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
- Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
- Step 4** Double-click the domain for which you want view the details.
- Step 5** Click **Fabric Interconnect**.
A list of all the fabric interconnect associated with the UCS domain appears.
- Step 6** Select a fabric interconnect from the list for which you want view the details.
In the right pane of the window, you can view the following fabric interconnect information:

Name	Description
Summary tab	The summary tab displays the following information: <ul style="list-style-type: none"> • Fabric interconnect specific information, such as a model, leadership, and so on. • Status section displays Ethernet or fabric connect mode, overall status, and so on. • Firmware section displays a kernel version, system version, bootloader version, and so on. • Faults section displays a number of faults categorized based on fault severity.
Monitor tab	Displays faults' information. The Monitor tab displays the following information: <ul style="list-style-type: none"> • The associated PSUs and related information on the PSU tab. • The fan modules and related information on the Fan tab.
More Objects tab	Displays the UCS domain with which the fabric interconnect is associated on their respective tabs.

Viewing the Non ESXi Server Details

You can view the non-ESXi server information for the C-Series servers under the rack mounts and the blade servers under the chassis. The following section explains how to view the non-ESXi server related information using the Cisco UCS Manager plug-in for either rack mounts or chassis.

Procedure

- Step 1** Launch the vSphere HTML Client.
- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
- Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
- Step 4** Double-click the domain for which you want view the details.
- Step 5** Click **Rack Mounts** or **Chassis**.
A list of all the rack mounts or chassis associated with the UCS domain appears.
- Step 6** Select a rack mount or chassis.
- Step 7** Click **Non ESXi Servers**.
A list of all the non ESXi servers associated with the rack mount or chassis appears.
- Step 8** Select a server from the list for which you want view the details.
In the right pane of the window, you can view the following server information:

Name	Description
Summary tab	<p>Displays the UCS server UUID, associated service profile, serial number, and information specific to hardware, such as a model, number of cores, processors, memory, and so on.</p> <p>It also has the following action buttons:</p> <ul style="list-style-type: none"> • Launch KVM - You can launch the KVM console by clicking on this button. • Launch UCSM - You can launch the Cisco UCS Manager GUI by clicking on this button. • Turn Locator LED On - Switches on the locator LED. • Turn Locator LED Off - Switches off the locator LED.
Monitor tab	<p>Displays faults' information, power, and temperature statistics.</p> <p>The Monitor tab displays the following information:</p> <ul style="list-style-type: none"> • UCS server inventory • Firmware management information • VIF paths
More Objects tab	<p>Displays information about the chassis or the rack mount they are associated with.</p>

Viewing the ESXi Server Details

You can view the ESXi server information for the C-Series servers under the rack mounts and the blade servers under the chassis. The following section explains how to view the ESXi server related information using the Cisco UCS Manager plug-in for either rack mounts or chassis.

Procedure

-
- Step 1** Launch the vSphere HTML Client.
- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
- Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
- Step 4** Double-click the domain for which you want view the details.
- Step 5** Click **Rack Mounts** or **Chassis**.
A list of all the rack mounts or chassis associated with the UCS domain appears.
- Step 6** Select a rack mount or chassis.
- Step 7** Click **ESXi Servers**.
A list of all the ESXi servers associated with the rack mount or chassis appears.
- Step 8** Select a server from the list for which you want view the details.
In the right pane of the window, you can view the following server information:

Name	Description
Summary tab	<p>Displays high-level server information related to hardware, configuration, health status, and the Cisco UCS information.</p> <p>The Cisco UCS information includes UUID, associated service profile, serial number, action buttons, and so on. It also has the following action buttons:</p> <ul style="list-style-type: none"> • Launch KVM - You can launch the KVM console by clicking on this button. • Launch UCSM - You can launch the Cisco UCS Manager GUI by clicking on this button. • Turn Locator LED On - Switches on the locator LED. • Turn Locator LED Off - Switches off the locator LED.

Name	Description
Monitor tab	Displays faults' information, and power statistics. The Monitor tab displays the following information: <ul style="list-style-type: none"> • ESXi server related information, such as networking, storage, alarm definitions, tags, permissions, and settings information on their respective tabs. • The Cisco UCS tab displays the UCS server inventory, firmware management information, and VIF Paths.
More Objects tab	Displays related information on chassis or the rack mount.

Viewing the Fabric Extender Details

The following section explains how to view fabric extender related information using the Cisco UCS Manager plug-in.

Procedure

- Step 1** Launch the vSphere HTML Client.
- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
- Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
- Step 4** Double-click the domain for which you want view the details.
- Step 5** Click **Rack Mounts**.
A list of all the rack mounts associated with the UCS domain appears.
- Step 6** Select a rack mount.
- Step 7** Click **FEX**.
In the right pane of the window, you can view the following fabric extender information:

Name	Description
Summary tab	<p>Displays high-level information related to fabric extender.</p> <p>The summary tab displays the following information:</p> <ul style="list-style-type: none"> • Fabric extender information, such as the model, total and available number of fabric ports, backplane ports, and so on. • Status section displays information, such as voltage, thermal, power, and so on. • Faults section displays a number of faults categorized based on fault severity.
Monitor tab	<p>Displays faults' information.</p> <p>The Monitor tab displays the following information:</p> <ul style="list-style-type: none"> • The associated PSUs and related information on the PSU tab. • The associated Input/output modules and related information on the IO Modules tab. • The fan modules and related information on the Fan tab.
More Objects tab	<p>Displays the rack mount with which the fabric extender is associated.</p>

Viewing Firmware Packages, Tasks, and Host Firmware Details

Perform the following steps to view firmware packages, tasks, and host firmware for the servers:

Procedure

- Step 1** Launch the vSphere HTML Client.
- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
- Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
- Step 4** Double-click the domain for which you want view the details.
- Step 5** In the right pane of the screen, click **Configure > Firmware**.

You can view the information related to the respective firmware tabs of the firmware tab:

Name	Description
Host Firmware Packages tab	Displays the number of host firmware packages and related information.
Firmware Upload Tasks tab	Displays the number of firmware installation files and related information. Displays the following actions supported on the firmware upload tasks tab: <ul style="list-style-type: none">• Upload Firmware• Delete Upload Task
Firmware Packages tab	Displays the following information: <ul style="list-style-type: none">• The list of all the downloaded firmware and the related information.• Delete firmware package action support.



CHAPTER 4

Performing Actions Using the Plug-in

This chapter includes the following sections:

- [Performing Actions Using the Plug-in, on page 21](#)
- [ESXi and Non ESXi Server Actions, on page 22](#)
- [Service Profile Templates Actions, on page 26](#)
- [Service Profile Actions, on page 28](#)
- [Firmware Management Actions, on page 29](#)
- [UCS Domain Actions, on page 32](#)

Performing Actions Using the Plug-in

Cisco UCS Manager plug-in enables you to perform various actions on the servers, UCS domains, service profiles and service profile templates. The actions that you can perform are available, based on the association state of the servers and your user privileges. Before executing any action, an impact analysis is performed. Based on the result of the analysis, you are prompted to cancel or continue with the action.

You can perform the following actions on various components that can be managed using the plug-in:

- **ESXi and non ESXi servers:**
 - Create service profiles for servers — allow you to create hardware or template based server profiles.
 - Manage BIOS policy — allow you to modify BIOS policy for a server.
 - Associate service profile — allow you to associate service profile for a server.
 - Manage firmware host pack — allow you to change host firmware pack for a server.
 - Disassociate service profile — allow you to disassociate service profile from a server.
- **ESXi servers:**
 - Launch KVM — allow you to launch the KVM console for the server.
 - Launch UCSM — allow you to launch the Cisco UCS Manager user interface for all registered UCS domains.
- **UCS domains:** Reload UCS Domain — allows you to reload the physical inventory of a UCS domain.
- **Service profile templates:**
 - Manage host firmware pack — allow you to change host firmware pack for a service profile template.
 - Manage Server Pools — allow you to change server pools.

- Create Service Profiles from Template — allow you to create service profiles using templates.
- **Service profiles:** Manage firmware host pack — allows you to change firmware host pack for a service profile.
- **Firmware:**
 - Upload Firmware —allow you to upload firmware bundle for a server.
 - Modify Package Versions— allow you to upgrade or downgrade the firmware package version.
 - Delete Upload Task— allow you to delete firmware upload task.
 - Delete Firmware Package—allow you to delete firmware package bundle.

The following sections describe how to perform the available actions.

ESXi and Non ESXi Server Actions

Creating Service Profiles for ESXi or Non-ESXi Servers

Perform the following steps to create a service profile:

Procedure

- Step 1** Launch the vSphere HTML Client.
- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
- Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
- Step 4** Double-click a domain.
- Step 5** Click **Rack Mounts** or **Chassis**.
A list of all the rack mounts or chassis associated with the UCS domain appears.
- Step 6** Select a rack mount or chassis.
- Step 7** Click **ESXi Servers** or **Non ESXi Servers**.
A list of all the ESXi or non ESXi servers associated with the rack mount or chassis appears.
- Step 8** Select a server and right-click.
For ESXi servers, right-click and select **All Cisco UCS vCenter Plugin Actions**.
- Step 9** Click **Create Service Profile for Server**.
Create Service Profile for Server screen appears.
- Step 10** In the Create Service Profile for Server, perform the following:
 - **Create Service Profile in Organization** - Choose an organization from the drop-down menu.
 - Select **Hardware Based Service Profile** or **Template Based Service Profile**.
 - If you have chosen **Hardware Based Service Profile**, enter the following:
 - Name of the service profile.

- Select **Create Default vNICs** or **Create Default vHBAs**.
- Click **OK**.
- If you have chosen **Template Based Service Profile**, enter the following:
 - Name of the service profile.
 - Select a service profile template form the drop-down menu.
 - Click **OK**.

This creates a service profile and associates it with the chosen server.

Managing BIOS Policies

Perform the following steps to manage a BIOS policy for a server:

Procedure

- Step 1** Launch the vSphere HTML Client.
- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
- Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
- Step 4** Double-click a domain.
- Step 5** Click **Rack Mounts** or **Chassis**.
A list of all the rack mounts or chassis associated with the UCS domain appears.
- Step 6** Select a rack mount or chassis.
- Step 7** Click **ESXi Servers** or **Non ESXi Servers**.
A list of all the ESXi or non ESXi servers associated with the rack mount or chassis appears.
- Step 8** Select a server and right-click.
- Step 9** Click **Manage BIOS Policy**.
Manage BIOS Policy screen appears.
- Step 10** In the **Manage BIOS Policy** screen, select a BIOS Policy from the drop-down menu.
- Step 11** Click **Save Changes**.
- Step 12** To change the BIOS parameters, click on **BIOS Policy Instance** link.
BIOS Policy screen appears.
- Step 13** Make the necessary changes to the BIOS parameters and click **Save Changes**.

Note You can associate a BIOS policy to multiple servers, if you make changes to the policy, changes will apply to all the associated servers.

Associating Service Profiles with the Servers

Perform the following steps to associate a service profile with a server:

Procedure

- Step 1** Launch the vSphere HTML Client.
 - Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
 - Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
 - Step 4** Double-click a domain.
 - Step 5** Click **Rack Mounts** or **Chassis**.
A list of all the rack mounts or chassis associated with the UCS domain appears.
 - Step 6** Select a rack mount or chassis.
 - Step 7** Click **ESXi Servers** or **Non ESXi Servers**.
A list of all the ESXi or non ESXi servers associated with the rack mount or chassis appears.
 - Step 8** Select a server and right-click.
 - Step 9** Click **Associate Service Profile**.
Associate Service Profile screen appears.
 - Step 10** In the **Associate Service Profile** screen, select **Available Service Profiles** or **All Service Profiles**.
A list of service profiles appears.
 - Step 11** Select a service profile from the list and click **OK**.
The chosen service profile is associated with the server.
-

Managing Host Firmware Pack

Perform the following steps to manage firmware host packs for servers:

Procedure

- Step 1** Launch the vSphere HTML Client.
- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
- Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
- Step 4** Double-click a domain.
- Step 5** Click **Rack Mounts** or **Chassis**.
A list of all the rack mounts or chassis associated with the UCS domain appears.
- Step 6** Select a rack mount or chassis.
- Step 7** Click **ESXi Servers** or **Non ESXi Servers**.
A list of all the ESXi or non ESXi servers associated with the rack mount or chassis appears.
- Step 8** Select a server and right-click.
- Step 9** Select **Manage Firmware Host Pack**.

- The **Manage Firmware Host Pack** wizard appears.
- Step 10** In the **Manage Firmware Host Pack** wizard, select a firmware host pack from the drop-down menu.
- Step 11** Click **Save Changes**.
-

Disassociating a Service Profile from a ESXi or Non ESXi Server

Perform the following steps to disassociate a service profile from a server:

Procedure

- Step 1** Launch the vSphere HTML Client.
- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
- Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
- Step 4** Double-click a domain.
- Step 5** Click **Rack Mounts** or **Chassis**.
A list of all the rack mounts or chassis associated with the UCS domain appears.
- Step 6** Select a rack mount or chassis.
- Step 7** Click **ESXi Servers** or **Non ESXi Servers**.
A list of all the ESXi or non ESXi servers associated with the rack mount or chassis appears.
- Step 8** Select a server and right-click.
- Step 9** Click **Disassociate Service Profile**.
- Step 10** In the **Disassociate Service Profile** screen, select the service profile and click **OK**.
The service profile is disassociated from the server.
-

Launching the KVM Console of an ESXi Server



Note The following steps are valid for Release 3.0(x).

The KVM Launch Manager enables you to access a server through the KVM console without logging in to Cisco UCS Manager.

Perform the following steps to launch the KVM console of the server:

Procedure

- Step 1** Launch the vSphere HTML Client.
- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
- Step 3** Navigate to the server on which you want to launch the KVM.

- Step 4** Select the server, and click **Launch KVM**.
A list of configured in-band management and out-of-band management IP addresses are displayed.
- Step 5** Select the IP address through which you want to launch the KVM, and click **OK**.
-

Launching the UCSM User Interface for an ESXi Server

Perform the following steps to launch the Cisco UCS Manager user interface:

Procedure

- Step 1** Launch the vSphere HTML Client.
- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
- Step 3** On the left pane, click **Hosts and Clusters**.
A list of all the hosts appear.
- Step 4** Select a host with a registered UCSM domain.
- Step 5** On the left pane, select a server and right-click and choose **All Cisco UCS vCenter Plug-in Actions**.
A list of all the available actions appear.
- Step 6** Click **Launch UCSM**.
-

Service Profile Templates Actions

Managing Host Firmware Pack for Service Profile Templates

Perform the following steps to manage firmware host packs for servers:

Procedure

- Step 1** Launch the vSphere HTML Client.
- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
- Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
- Step 4** Double-click a domain.
- Step 5** On the right pane of the screen, click **Configure > Service Profile Template**.
- Step 6** Select a service profile template.
- Step 7** Click **Actions** and select **Manage Firmware Host Pack**.
The **Manage Firmware Host Pack** wizard appears.
- Step 8** In the **Manage Firmware Host Pack** wizard, select a firmware host pack from the drop-down menu.

- Step 9** Click **Save Changes**.
-

Managing Server Pools

Perform the following steps to manage server pools:

Procedure

- Step 1** Launch the vSphere HTML Client.
 - Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
 - Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
 - Step 4** Double-click a domain.
 - Step 5** On the right pane of the screen, click **Configure > Service Profile Templates**
 - Step 6** Select a service profile template.
 - Step 7** Click **Actions** and select **Manage Server Pools**.
Associated Server Pools pop-up appears.
 - Step 8** Click **Associate with Server Pool**.
Associate with Server Pool pop-up appears.
 - Step 9** Select **Pool Assignment** and **Server Pool Qualification** from the respective drop-down menus.
 - Step 10** Click **OK**.
-

Creating Service Profiles From Templates

Perform the following steps to create service profiles from templates:

Procedure

- Step 1** Launch the vSphere HTML Client.
- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
- Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
- Step 4** Double-click a domain.
- Step 5** On the right pane of the screen, click **Configure > Service Profile Templates**
- Step 6** Select a service profile template.
- Step 7** Click **Actions** and select **Create Service Profiles From Template** using which you want to create a service profile.
Create Service Profiles From Template pop-up appears.
- Step 8** Enter the prefix, suffix and the number of instances of the service profile you want to create in the respective fields.

Step 9 Click **OK**.

Service Profile Actions

Managing Host Firmware Pack for a Service Profile

Perform the following steps to manage firmware host packs for servers:

Procedure

- Step 1** Launch the vSphere HTML Client.
 - Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
 - Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
 - Step 4** Double-click a domain.
 - Step 5** On the right pane of the screen, click **Configure > Service Profile**.
 - Step 6** Select a service profile.
 - Step 7** Click **Actions** and select **Manage Firmware Host Pack**.
The **Manage Firmware Host Pack** wizard appears.
 - Step 8** In the **Manage Firmware Host Pack** wizard, select a firmware host pack from the drop-down menu.
 - Step 9** Click **Save Changes**.
-

Acknowledging Pending Activities

Perform the following steps to acknowledge the pending activities for servers:

Procedure

- Step 1** Launch the vSphere HTML Client.
- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
- Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
- Step 4** Double-click a domain.
- Step 5** On the right pane of the screen, click **Configure > Service Profile**.
- Step 6** Click **Pending Activities**.
The **Pending Activities** wizard appears.
- Step 7** On the **Pending Activities** wizard, check the **Reboot now** check box against the servers for which you want to trigger the reboot.

Step 8 Click **Ok**.

Firmware Management Actions

Uploading Firmware Packages

Perform the following steps to upload firmware host packs for the servers:

Procedure

- Step 1** Launch the vSphere HTML Client.
- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
- Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
- Step 4** Double-click a domain.
- Step 5** On the right pane of the screen, click **Configure > Firmware > Firmware Upload Tasks**.
- Step 6** Click **Actions** and select **Upload Firmware**.
The **Upload Firmware Bundle** dialog box appears.
- Step 7** In the **Upload Firmware Bundle** dialog box, complete the following:

Action	Description
Protocol field	The protocol type. This can be one of the following: <ul style="list-style-type: none"> • FTP • TFTP • SCP • SFTP
Server field	The IP address or hostname of the server on which the firmware bundle resides. Depending on the setting in the Protocol field, the name of the server may vary.
Filename field	The name of the firmware bundle on the server.
Remote Path field	The absolute path to the file on the remote server. If you use SCP , the absolute path is always required. If you use any other protocol, you may not need to specify a remote path if the file resides in the default download folder. For details about how your file server is configured, contact your system administrator.

Action	Description
User field	The username the system should use to log in to the server. This field does not apply if the protocol is TFTP.
Password field	The password for the server. This field does not apply if the protocol is TFTP.

- Step 8** Click **Ok**.
Uploads the firmware package and the uploaded package appears on the **Firmware Packages** tab.
- Step 9** (Optional) To delete a firmware package, select the firmware package and click **Actions > Delete Upload Task**.
- Step 10** (Optional) Click **Ok** in the delete confirmation prompt.

Modifying Package Version for Host Firmware Pack

Perform the following steps to modify the firmware host packs for the servers:

Procedure

- Step 1** Launch the vSphere HTML Client.
- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
- Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
- Step 4** Double-click a domain.
- Step 5** On the right pane of the screen, click **Configure > Firmware > Host Firmware Packages**.
- Step 6** Expand **Org**.
- Step 7** Select the host firmware package that is associated with the service profile or the servers for which you want to upgrade or downgrade the firmware.
- Note** You can view the currently associated service profiles to host firmware package by clicking **Modify Package Version**. This displays the existing packages.
- Note** If you want to upgrade the firmware on server that does not have an associated service profile, select the **default** host firmware package. Choosing this option upgrades the firmware on all the unassociated servers or service profiles associated to the default host firmware package.
- Step 8** Click **Actions > Modify Package Versions**.
The **Modify Package Versions** wizard appears.
- Step 9** For the B-Series and C-Series servers, select the firmware versions to which you want to upgrade from the respective **Blade Package** and **Rack Package** drop-down lists.

- Step 10** The **Host Firmware Package Dependencies** area, lists all the associated service profiles, affected ESXi hosts and their VMs.
- Step 11** Click **Next**.
Summary of the impacted endpoints and their status appear.
- Step 12** (Optional) Use the available filter option to view specific impacts.
- Step 13** If ESXi is running on any impacted server, **Move all the running hosts to maintenance mode** is enable by default. If you want to update the firmware package without moving the host to maintenance mode, check **Upgrade even with running server**.
- Note** The firmware upgrade process terminates if the hosts are not successfully moved to a maintenance mode.
- Note** After the upgrade, all the hosts remain in the maintenance mode until you manually exit the hosts from the maintenance mode.
- Step 14** Click **Update**.
Initiates the upgrade process.
- Note** If the upgrade process aborts due to any fault, check the hosts status manually to see whether any of the hosts are pending or moved to maintenance mode.
- Note** If you encounter a timeout error during the upgrade process, move the hosts to maintenance mode manually, and then rerun the **Modify Package Versions** wizard to trigger the firmware upgrade.
- Step 15** After successful firmware upgrade, an **Alert** message dialog box appears. Review the message and click **Ok** to exit.
If you want to trigger an immediate reboot for a few or all the servers, click **Pending Activities**.
- Note** The **Pending Activities** option appear when UCS maintenance policy is set to **User Acknowledge** or **Scheduled for maintenance window** for associated service profiles.
- Step 16** (Optional) On the **Pending Activities** page, you can do the following:
- On the **Scheduled Activities** tab, you can override the schedule state and trigger an immediate reboot for the servers in the list. For immediate reboot, check the **Reboot Now** checkbox against respective service profile and click **Ok**.
 - on the **User Acknowledged Activities** tab, you can acknowledge an activity, or trigger immediate reboot for the servers in the list. For immediate reboot, check the **Reboot Now** checkbox against respective service profile and click **Ok**.

Deleting Uploaded Task

Procedure

- Step 1** Launch the vSphere HTML Client.

- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
 - Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
 - Step 4** Double-click a domain.
 - Step 5** On the right pane of the screen, click **Configure** > **Firmware** > **Firmware Upload Tasks**.
 - Step 6** Select the task that you want to delete.
 - Step 7** Click **Actions** and select **Delete Upload Task**.
 - Step 8** Click **OK** in the delete confirmation box.
Click **OK** in the delete success box.
-

Deleting Firmware Package

Procedure

- Step 1** Launch the vSphere HTML Client.
 - Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.
 - Step 3** In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.
 - Step 4** Double-click a domain.
 - Step 5** On the right pane of the screen, click **Configure** > **Firmware** > **Firmware Packages**.
 - Step 6** Select the firmware package that you want to delete.
 - Step 7** Click **Actions** and select **Delete Firmware Package**.
 - Step 8** Click **OK** in the delete confirmation box.
Click **OK** in the delete success box.
-

UCS Domain Actions

Reloading UCS Domain Inventory

Perform the following steps to reload a UCS domain inventory:

Procedure

- Step 1** Launch the vSphere HTML Client.
- Step 2** Go to the Shortcuts page, and launch the Cisco UCS plug-in.

Step 3 In the **Home** tab on the **Cisco UCS Management Center** page, you can view a list of all the registered UCS domains.

Step 4 Double-click a domain.

Step 5 Select **Reload UCS Domain**.

If **Actions** are not working, then perform the following steps:

- a. Click **More Objects > Fabric Interconnects**.
- b. From the list, click any Fabric interconnect.
- c. Select the **More Objects** tab.
- d. Right-click **Domain** and select **Reload UCS Domain**.

Reloads the UCS domain inventory.



CHAPTER 5

Using the Cisco UCS Provider for Proactive High Availability (HA)

This chapter includes the following sections:

- [Cisco UCS Provider for Proactive HA](#) , on page 35
- [Registering a Cisco UCS Provider](#), on page 36
- [Enabling Cisco UCS Provider](#), on page 37
- [Unregistering a Cisco UCS Provider](#), on page 38
- [Modifying Cisco UCS Failure Conditions](#), on page 38
- [List of Cisco UCS Provider Failure Conditions for Proactive HA](#), on page 39
- [Adding Custom Faults for Proactive HA Monitoring](#), on page 41

Cisco UCS Provider for Proactive HA

Cisco UCS Provider for Proactive HA feature allows the system to assess the health of the server running the ESXi host. It assess if the server is healthy, moderately or severely degraded. Any fault which occurs from the Cisco approved predefined list of faults with critical or major severity is reported to the vCenter. For more information on Proactive HA feature and providers, see VMware documentation.

Prerequisites and User Privileges

To use Cisco UCS Provider for the Proactive HA, we recommend that you enable the following:

- vSphere DRS
- Proactive HA

You must have the following privileges to use Cisco UCS Provider for the Proactive HA:

- **Health Update Provider**
 - Register
 - Unregister
 - Update
- **Host**

- Inventory
 - Modify Cluster
- Configuration
 - Quarantine
 - Maintenance
- Storage Views
 - View

Registering a Cisco UCS Provider

Procedure

- Step 1** Launch the vSphere HTML Client.
- Step 2** From the **Shortcuts** page, launch Cisco UCS plug-in.
- Step 3** Click **Proactive HA Registration** tab.
- Step 4** In the **Register Cisco UCS Provider** area, enter the following:

Name	Description
Username	Enter the vCenter username
Password	Enter the vCenter password

Note If you want to update the vCenter credentials for Cisco UCS Provider, then enter a new password and click **Update**.

- Step 5** Click **Register**.

The Cisco UCS Provider is visible when the domains which manage all the hosts in the cluster are registered.

Important To upgrade the registered Cisco UCS Manager plug-in, unregister the Cisco UCS Provider for Proactive HA, upgrade the registered plug-in and register the Cisco UCS Provider for Proactive HA. For more information on how to unregister the Cisco UCS Provider, and upgrade the plug-in, see [Unregistering a Cisco UCS Provider, on page 38](#) and [Upgrading Cisco UCS Manager Plug-In for vSphere HTML Client, on page 7](#).

Enabling Cisco UCS Provider

Before you begin

- Enable vSphere DRS
- From the **vSphere Availability**, enable Proactive HA
- Register all the UCS domains which manage all the hosts in the cluster. To register the domains, see [Registering the UCS Domains, on page 8](#)

Procedure

Step 1 Click **Hosts and Clusters > Cluster > Configure > vSphere Availability > Proactive HA > Edit**.

Step 2 On the **Proactive HA Failures and Responses** tab, complete the following:

Name	Description
Automation Level drop-down list	Whether to migrate the VMs automatically or manually in case of hosts failure. This can be one of the following: <ul style="list-style-type: none"> • Manual • Automated We recommend that you select Automated level.
Remediation drop-down list	The action to be taken depending on the severity of the failure, This can be one of the following: <ul style="list-style-type: none"> • Quarantine mode for all failures • Quarantine mode for moderate and Maintenance Mode for sever failures (Mixed) • Maintenance mode for all failures We recommend that you select Mixed mode.

Step 3 From the list, check the **Cisco UCS Provider** check box, and click **OK**.

Unregistering a Cisco UCS Provider

Procedure

- Step 1** Launch the vSphere HTML Client.
 - Step 2** From the Shortcuts page, launch Cisco UCS plug-in.
 - Step 3** Click **Proactive HA Registration** tab.
 - Step 4** Click **Unregister**.
-

Modifying Cisco UCS Failure Conditions

Before you begin

- Enable vSphere DRS
- From the **vSphere Availability**, enable Proactive HA
- Register all the UCS domains which manage all the hosts in the cluster. To register the domains, see [Registering the UCS Domains, on page 8](#)

Procedure

- Step 1** Click **Hosts and Clusters > Cluster > Configure > vSphere Availability > Proactive HA > Edit**.
 - Step 2** From the list of providers under **Providers** tab, check the **Cisco UCS Provider** check box, and click **Edit**.
A list of Cisco UCS Provider failure conditions appears.
 - Step 3** To block a failure condition on a host in the cluster, check the failure condition and the associated host check box.
 - Step 4** To select all current and future hosts in the cluster, check the **Cluster-level** check box.
 - Step 5** Click **OK**.
-

List of Cisco UCS Provider Failure Conditions for Proactive HA

Table 1: Fault Conditions in Cisco UCS Provider

SI. No.	Fault ID	Component Type	Description
1.	F0190	Memory	Memory array voltage exceeds the specified hardware voltage
2.	F0539	Network	IO controller temperature is outside the upper or lower critical threshold
3.	F0185	Memory	Memory Unit Inoperable
4.	F0313	Power	Compute Physical BIOS POST Timeout
5.	F0317	Storage	Compute Physical Inoperable
6.	F0373	Fan	Equipment Fan Inoperable
7.	F0374	Power	Equipment PSU Inoperable
8.	F0484	Fan	Equipment Fan Performance Threshold Lower Non Recoverable
9.	F0187	Memory	Memory Unit Thermal Threshold Critical
10.	F0188	Memory	Memory Unit Thermal Threshold Non Recoverable
11.	F0312	Storage	Compute Physical Thermal Problem
12.	F0382	Fan	Equipment Fan Module Thermal Threshold Critical
13.	F0384	Fan	Equipment Fan Module Thermal Threshold Non Recoverable
14.	F0383	Power	Equipment PSU Thermal Threshold Critical

Sl. No.	Fault ID	Component Type	Description
15.	F0385	Storage	Equipment PSU Thermal Threshold Non Recoverable
16.	F0540	Network	Compute IOHub Thermal Threshold Non Recoverable
17.	F0191	Memory	Memory Array Voltage Threshold Non Recoverable
18.	F0389	Power	Equipment PSU Voltage Threshold Critical
19.	F0391	Power	Equipment PSU Voltage Threshold Non Recoverable
20.	F0425	Power	Compute Board CMOS Voltage Threshold Non Recoverable
21.	F0310	Power	Compute Board Power Error
22.	F0311	Power	Compute Physical Power Problem
23.	F0369	Power	Equipment PSU Power Supply Problem
24.	F37600	Memory	Memory temperature beyond threshold
25.	F35962	Power	Motherboard power consumption beyond threshold
26.	F0174	Power	Processor is inoperable
27.	F0181	Power	Local disk has become inoperable
28.	F1004	Power	Storage controller is inaccessible
29.	F0209	Network	Network facing adapter interface is down
30.	F1007	Power	Virtual drive has become inoperable

Sl. No.	Fault ID	Component Type	Description
31.	F1706	Memory	ADDDC Memory RAS Problem

Adding Custom Faults for Proactive HA Monitoring

Before you begin

Perform the following steps only if Proactive HA is already registered:

- Disable the HA provider and turn off Proactive HA from vSphere availability in cluster settings.
- Unregister the Proactive HA. To unregister the proactive HA in the domains, see [Unregistering a Cisco UCS Provider, on page 38](#).

Procedure

- Step 1** Launch the vSphere HTML Client.
- Step 2** From the **Shortcuts** page, launch Cisco UCS plug-in.
- Step 3** Click **Proactive HA Registration** tab.
- Step 4** In the **Fault Monitoring Details** area, enter the following:

Name	Description
ID	Fault Code
Description	Description for the fault
Component Type	Component type of the fault

- Step 5** Click **ADD**.
- Important** The **ADD** button is enabled only when Proactive HA is unregistered. To unregister the proactive HA, see [Unregistering a Cisco UCS Provider, on page 38](#).
- Step 6** Register the Proactive HA. To register the proactive HA in the domains, see [Registering a Cisco UCS Provider, on page 36](#).
- Step 7** Turn on Proactive HA and enable the HA provider from vSphere availability in cluster settings.



CHAPTER 6

Troubleshooting

This chapter includes the following sections:

- [Troubleshooting, on page 43](#)

Troubleshooting

Issue: After adding or removing ESXi host from vCenter, the changes are not getting refreshed in the ESXi servers and non ESXi server section in the plug-in inventory.

Cause: UCS domain inventory does not get refreshed automatically.

Workaround:

Perform reload UCS domain action after adding or removing host from vCenter. For more information on how to reload UCS domain, see [Reloading UCS Domain Inventory, on page 32](#).

