



## Replacing Components

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- [Preparing a Fabric Interconnect for Removal, on page 1](#)
- [Shutting Down a Fabric Interconnect, on page 2](#)
- [Removing a Cisco UCS Fabric Interconnect From a Rack, on page 5](#)
- [Repacking the Cisco UCS Fabric Interconnect for Return Shipment, on page 6](#)

## Preparing a Fabric Interconnect for Removal

Removing a subordinate (standby) fabric interconnect is non-disruptive in a redundant, high-availability Cisco UCS configuration. Removing a primary (active) fabric interconnect will cause the standby fabric interconnect to become active with minimal or no disruption.

When powering down and removing clustered fabric interconnects, remove the subordinate fabric interconnect first, and then remove the primary fabric interconnect.



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**Caution**

Be aware that if you remove both the primary and subordinate fabric interconnects, or the single fabric interconnect from a standalone system, you are shutting down the entire Cisco UCS domain.

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### Procedure

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- Step 1** Use Cisco UCS Manager to perform the following tasks:
- a) Back up your Cisco UCS Manager configuration.
  - b) Shut down the OS on all servers in the Cisco UCS domain.
  - c) Disable the Smart Call Home feature in the Cisco UCS domain.
  - d) Decommission every attached chassis in the Cisco UCS domain.

For details, see the *Configuration Guide* for the version of Cisco UCS Manager that you are using. The configuration guides are available at this URL: <http://www.cisco.com/c/en/us/support/servers-unified-computing/ucs-manager/products-installation-and-configuration-guides-list.html>.

- Step 2** Power down every attached chassis as described in the [Cisco UCS 5108 Server Chassis Hardware Installation Guide](#).
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**Example:**

```

FI-A# show cluster extended-state
Cluster Id: 0x537d0580bf9911e0-0x8955000decd07984

A: UP, PRIMARY
B: DOWN, INAPPLICABLE

A: memb state UP, lead state PRIMARY, mgmt services state: UP
B: memb state DOWN, lead state INAPPLICABLE, mgmt services state: DOWN
   heartbeat state SECONDARY_FAILED

INTERNAL NETWORK INTERFACES:
eth1, DOWN
eth2, DOWN

HA NOT READY
Peer Fabric Interconnect is down
Detailed state of the device selected for HA storage:
Chassis 1, serial: FOX1344G1R1, state: active
Chassis 2, serial: FOX1318GDKR, state: active
FI-A#

```

- Step 7** Remove the fabric interconnect from the rack. Follow the instructions in [Removing a Cisco UCS Fabric Interconnect From a Rack, on page 5](#).
- Step 8** Install the replacement fabric interconnect to the rack. Follow the instructions in [Installing the Cisco UCS FI 6454 in a Cabinet or Rack](#).
- Step 9** Connect the management and console cables to the replacement fabric interconnect.
- Step 10** Connect the L1/L2 cables that were disconnected to the replacement fabric interconnect.
- Step 11** Connect the data cable according to the labels that you created in Step 2.
- Step 12** Connect the power cable to the fabric interconnect and it will automatically boot and run POST tests.

```

---- Basic System Configuration Dialog ----

This setup utility will guide you through the basic configuration of
the system. Only minimal configuration including IP connectivity to
the Fabric interconnect and its clustering mode is performed through these steps.

Type Ctrl-C at any time to abort configuration and reboot system.
To back track or make modifications to already entered values,
complete input till end of section and answer no when prompted
to apply configuration.

Enter the configuration method. (console/gui) ? console

Installer has detected the presence of a peer Fabric interconnect.
This Fabric interconnect will be added to the cluster. Continue (y/n) ? y

Enter the admin password of the peer Fabric interconnect:
Connecting to peer Fabric interconnect... done
Retrieving config from peer Fabric interconnect... done
Peer Fabric interconnect Mgmt0 IP Address: 122.255.252.2
Peer Fabric interconnect Mgmt0 IP Netmask: 255.255.255.0
Cluster IP address           : 122.255.252.1

Physical Switch Mgmt0 IPv4 address : 122.255.252.3

Apply and save the configuration (select 'no' if you want to re-enter)? (yes/no): yes
Applying configuration. Please wait.

```

Configuration file - Ok

Cisco UCS 6454 Fabric Interconnect

FI-B login:

### Step 13

If necessary, upgrade the UCS Manager software. If the replacement fabric interconnect is not running the same firmware version as the cluster, the setup utility can upgrade the firmware.

#### Example:

---- Basic System Configuration Dialog ----

This setup utility will guide you through the basic configuration of the system. Only minimal configuration including IP connectivity to the Fabric interconnect and its clustering mode is performed through these steps.

Type Ctrl-C at any time to abort configuration and reboot system. To back track or make modifications to already entered values, complete input till end of section and answer no when prompted to apply configuration.

Enter the configuration method. (console/gui) ? console

Installer has detected the presence of a peer Fabric interconnect. This Fabric interconnect will be added to the cluster. Continue (y/n) ? y

Enter the admin password of the peer Fabric interconnect:  
Connecting to peer Fabric interconnect... done  
Retrieving config from peer Fabric interconnect... done  
Installer has determined that the peer Fabric Interconnect is running a different firmware version than the local Fabric.  
Cannot join cluster.

Local Fabric Interconnect  
UCSM version : 3.1(2c)  
Kernel version : 5.0(3)N2(3.12b)  
System version : 5.0(3)N2(3.12b)  
local\_model\_no : UCS-FI-6454

Peer Fabric Interconnect  
UCSM version : 3.1(2c)  
Kernel version : 5.0(3)N2(3.12c)  
System version : 5.0(3)N2(3.12c)  
peer\_model\_no : UCS-FI-6454

Do you wish to update firmware on this Fabric Interconnect to the Peer's version? (y/n): y  
Updating firmware of Fabric Interconnect.....  
[ Please don't press Ctrl+c while updating firmware ]

Updating images  
Please wait for firmware update to complete.

<output truncated>

Install has been successful.  
Firmware Update Successfully Completed. Please wait to enter the IP address  
Peer Fabric interconnect Mgmt0 IPv4 Address: xx.xx.xx.xx  
Peer Fabric interconnect Mgmt0 IPv4 Netmask: xx.xx.xx.xx  
Cluster IPv4 address : xx.xx.xx.xx



- Step 3** Disconnect the power cords and any console cables.
  - Step 4** Disconnect all cables that are connected to SFP28 transceivers.
  - Step 5** Remove the screws fastening the front rack-mount brackets to the mounting rails.
  - Step 6** Gently slide the Cisco UCS Fabric Interconnect toward you, off of the slider rails and out of the rack.
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## Repacking the Cisco UCS Fabric Interconnect for Return Shipment

If you need to return the fabric interconnect, remove the fabric interconnect from the rack and repack it for shipment. If possible, use the original packing materials and container to repack the unit. Contact your Cisco customer service representative to arrange for return shipment to Cisco.