# Upgrade UCS Manager

## Contents

## Introduction

This document describes how to upgrade Cisco UCS Manager.

## Prerequisites

### Requirements

Cisco recommends that you have knowledge of these topics:

- Basic understanding of Cisco UCS.

### Components Used

The information in this document is based on these software and hardware versions:

- Software version 4.2(2e)
- Software version 4.3(3a)
- Fabric Interconnects 6454 (UCS-FI-6454)

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

## Background Information

The example in this guide demonstraates a pair of Cisco Fabric Interconnects **6454**and performs an upgrade from version **4.2(2e)** to **4.3(3a)** using the Cisco UCS infrastructure software A bundle.

This bundle includes firmware images that are required to update these components:

- Cisco UCS Manager software

- Kernel and system firmware for the fabric interconnects
- I/O module firmware

Read the Cisco official documentation for your specific model and firmware version of fabric interconnects before proceeding with this exercise.

# Configure

Validate the upgrade path for your current software version on the **Cisco UCS Manager Upgrade/Downgrade Support Matrix** website.



*1 Support Manager*

Further firmware upgrade recommendations (when using the Firmware Upgrade TAC Assistant tool) can be obtained via the **Support Case Manager** when opening a Service Request.

*2 Support Case Manager*

Download the required firmware bundle for your specific Fabric Interconnect model from the **Cisco Software Download Center** website.

Log in with your Cisco account for download.

Note that the FI-6454 uses the same firmware image as the FI-64108 Fabric Interconnects because they are both 6400 series Fabric Interconnects.

Accept Cisco's General Terms for the download to begin.

## UCS Infrastructure and UCS Manager Software

Release 4.3(3a)
🔔 My Notifications

Related Links and Documentation
Release Note for 4.3(3a)

| File Information | Release Date | Size |
|---|---|---|
| The UCS Infrastructure Software Bundle contains: - NX-OS software for the UCS 6332 Fabric Interconnects - Firmware for the fabric extenders and I/O modules - UCS Manager - Chassis Management Controller - UCSM Capability Catalog.<br>ucs-6300-k9-bundle-infra.4.3.3a.A.bin<br>Advisories | 15-Feb-2024 | 1472.60 MB |
| The UCS Infrastructure Software Bundle contains: - NX-OS software for the UCS 6454 Fabric Interconnects - Firmware for the fabric extenders and I/O modules - UCS Manager - Chassis Management Controller - UCSM Capability Catalog.<br>ucs-6400-k9-bundle-infra.4.3.3a.A.bin<br>Advisories | 15-Feb-2024 | 2602.95 MB |
| The UCS Infrastructure Software Bundle contains: - NX-OS software for the UCS 6536 Fabric Interconnects - Firmware for the fabric extenders and I/O modules - UCS Manager - Chassis Management Controller - UCSM Capability Catalog.<br>ucs-6500-k9-bundle-infra.4.3.3a.A.bin<br>Advisories | 15-Feb-2024 | 2643.70 MB |

Sidebar:
Search...
Expand All  Collapse All
Suggested Release
4.3(3a)
4.2(3j)
4.1(3m)
Latest Release
4.3(3c)
4.2(3j)
4.1(3m)
4.0(4o)
All Release
4.3
4.2
4.1
4.0

When the download is complete, log on to UCS Manager web interface using the Fabric Interconnect cluster IP address or the fully qualified domain name with an account possessing admin privileges.

Navigate to **Equipment>Firmware Management>Installed Firmware**.

Expand **UCS Manager** and confirm the running UCS Manager firmware version.

Navigate to **Download Tasks**, and click **Download Firmware.**



| Main Topology View | Fabric Interconnects | Servers | Thermal | Decommissioned | Firmware Management | Policies | Faults |
|---|---|---|---|---|---|---|---|

| Installed Firmware | Firmware Auto Install | Catalog Package | Download Tasks | Packages | Images | Upgrade Validation | Faults |
|---|---|---|---|---|---|---|---|

Advanced Filter  Export  Print  Download Firmware

| Filename | Path | Transfer State |
|---|---|---|

*5 Download Tasks*

In the pop-up window, click **Choose file**

# Download Firmware

Location of the Image File:

◉ Local File System  ○ Remote File System

Filename :  [ Choose file ]  **No file chosen**

*6 Choose File*

Browse to the directory where the downloaded Fabric Interconnect bundle was saved and select the **Infra A**,Bundle file, click **Open** and **OK**.

| Downloads |  |  |  | Q Search |
|---|---|---|---|---|
| Name |  |  | Size | Kin |
| 📄 ucs-6400-k9-bundle-infra.4.3.3a.A.bin |  |  | 2,73 GB | Ma |

Cancel | Open
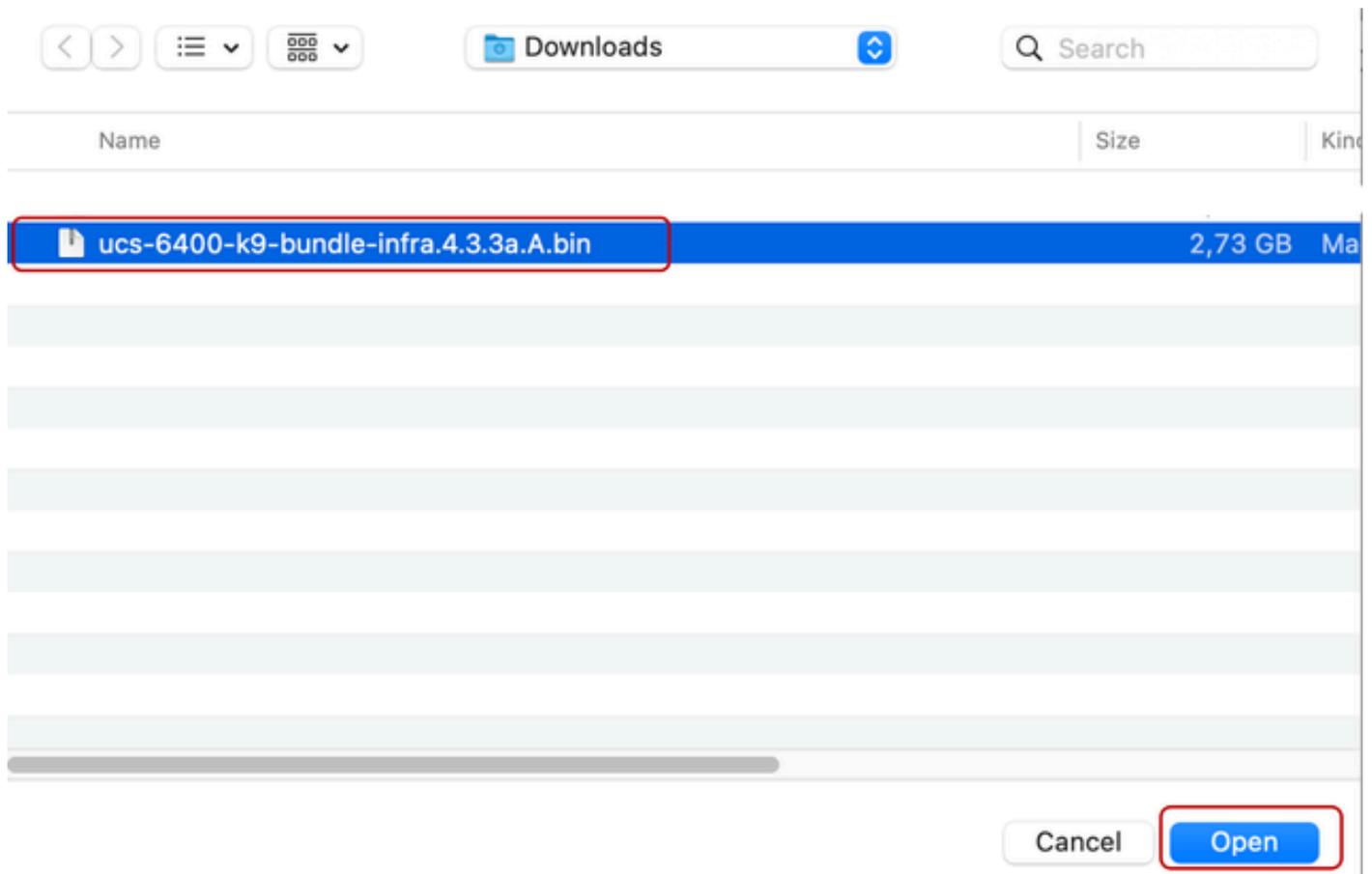
*7 Open File*

After the downloaded bundle has been imported into UCS Manager, click on **Firmware Auto Install,** select**Install Infrastructure Firmware** under**Actions**.

*8 Install Firmware*

Carefully review all warnings and resolve any pending issues in the pop-up if required before proceeding. Select **Ignore all** and click **Next**

*9 Ignore All, Next*

Choose the appropriate Infra Pack from the drop-down and check **Upgrade Now** checkbox. Click **Finish**.
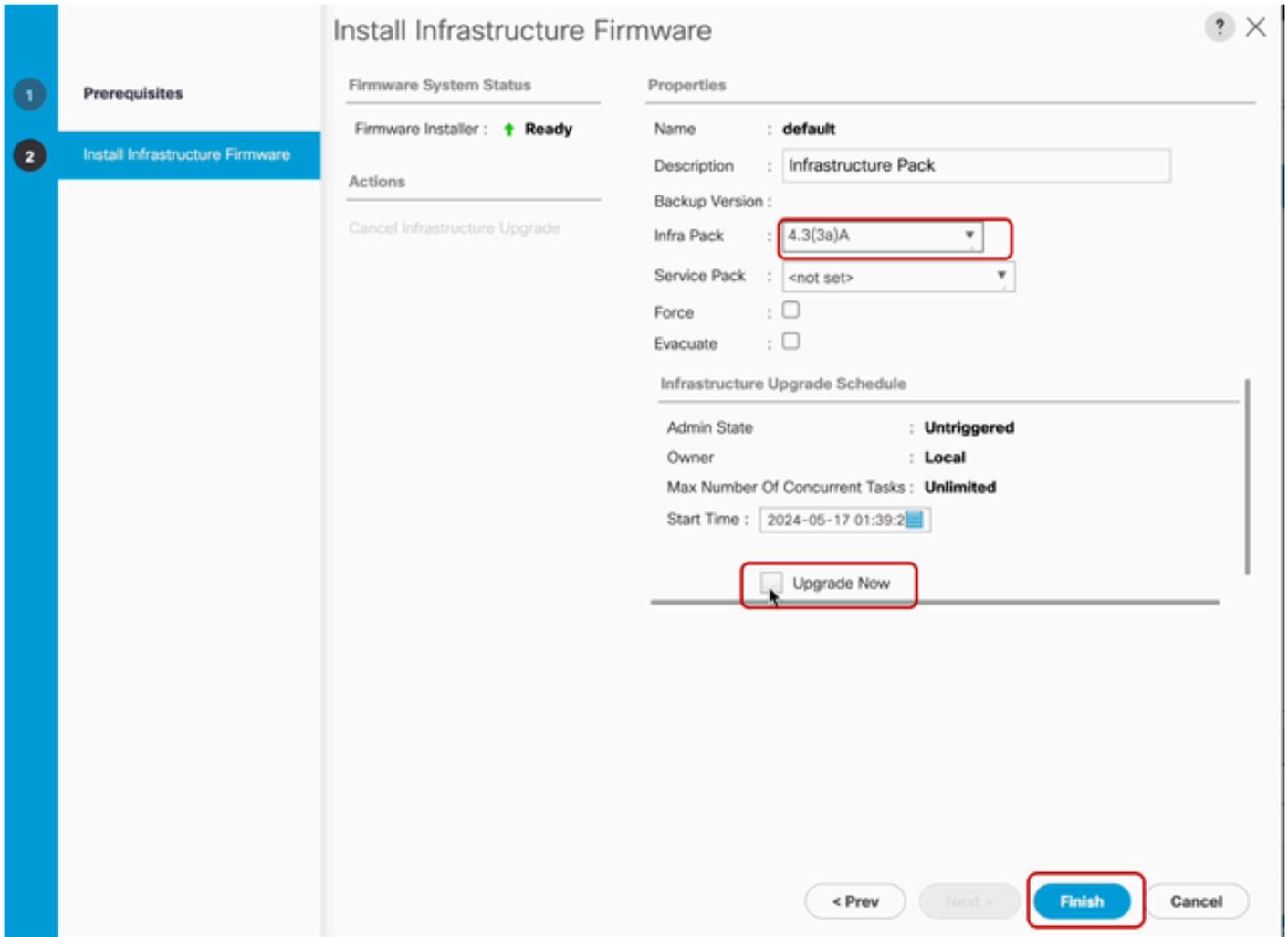
*10 Upgrade Now, Finish*

Click **Yes** to disregard the warning for the **Service Pack** not being selected. Click **OK**.
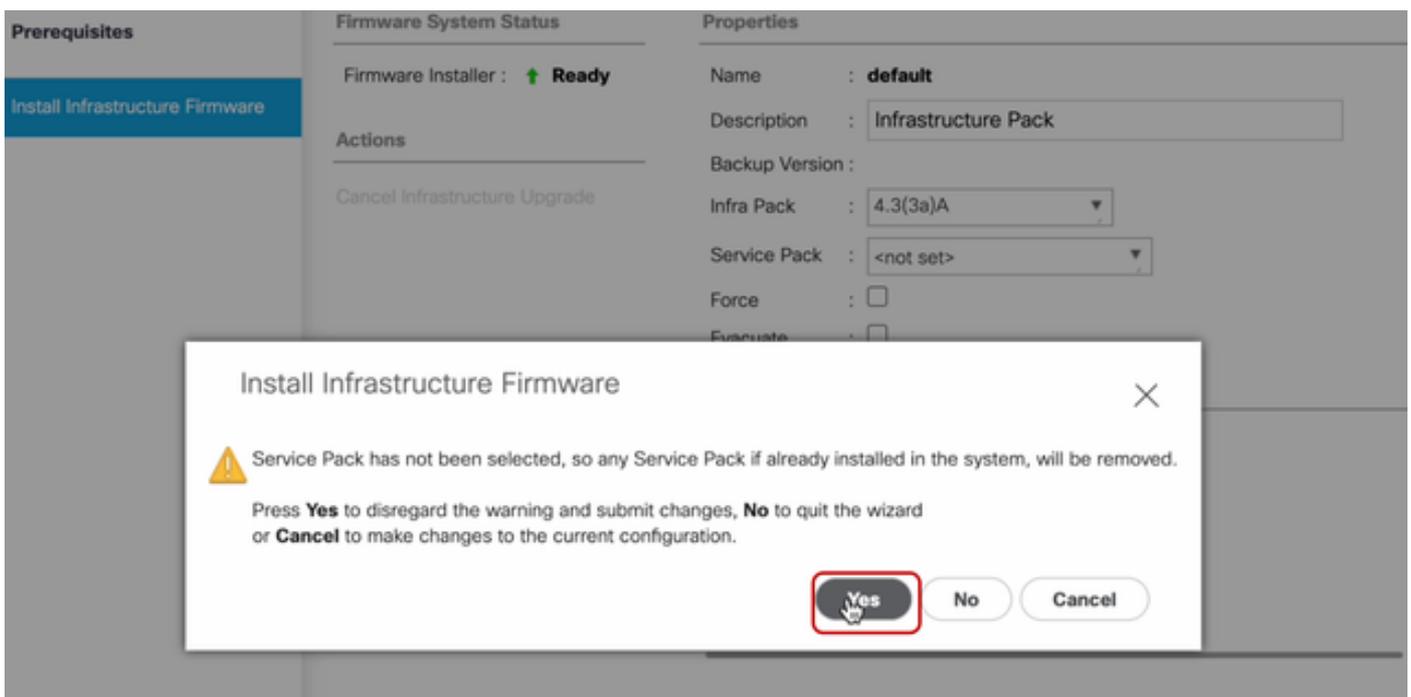
To monitor the upgrade progress, click the **FSM** tab. The upgrade begins after a few moments.

It is highly recommended to enable the **Evacuate** option, to ensure traffic is moved between Fabric Interconnects during the upgrade process and to avoid traffic disruption.

This is typically done first on the Secondary Fabric Interconnect.
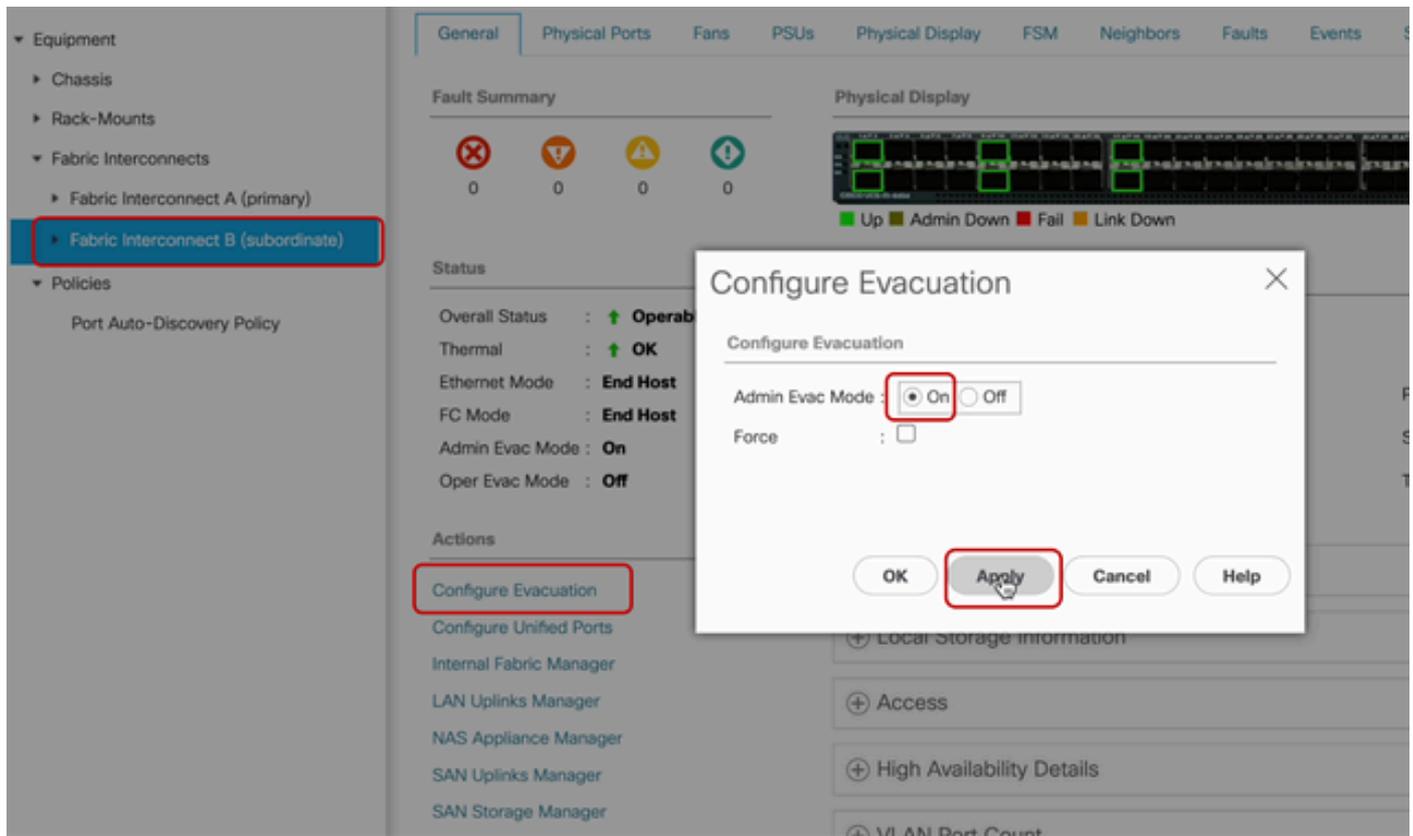


*12 Configure and Apply*

Verify paths are functioning (from UCS perspective) as well as any virtual path and/or virtual machine, virtual NIC, or HBA.

This ensures that traffic is not impacted during the upgrade process.

If there are any vNIC or vHBA down, verify the impact and resolve the situation before the upgrade.

By design, the UCS Infrastructure upgrade, starts the upgrade on the Secondary Fabric Interconnect.

When the upgrade is about to finish at the Secondary Fabric Interconnect, you are temporarily logged-out by the UCS system.

This happens because the UCS Manager is being upgraded and management processes are down, however the data plane remains up as it is detached from the management plane.

If you configured **SNMP**, you can possibly receive alerts regarding the state of the management plane.

This is normal, hence it is recommended to disable **SNMP** notifications during your upgrade and re-enable after having completed the activity.

As soon as the system becomes available again, the upgrade of theUCS Manager component is completed.

You can log back in to UCS Manager to monitor the rest of the upgrade via the **FSM** tab
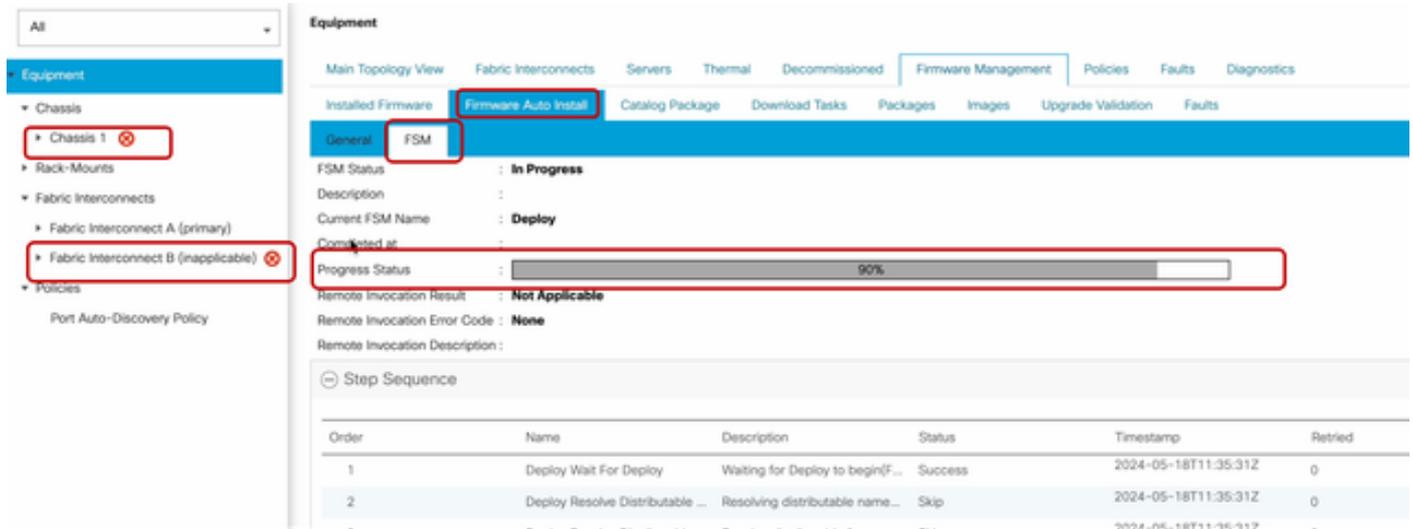


13 Firmware Auto Install

The subordinate **Fabric Interconnect** and its corresponding chassis **IO Module** then complete their respective upgrades.
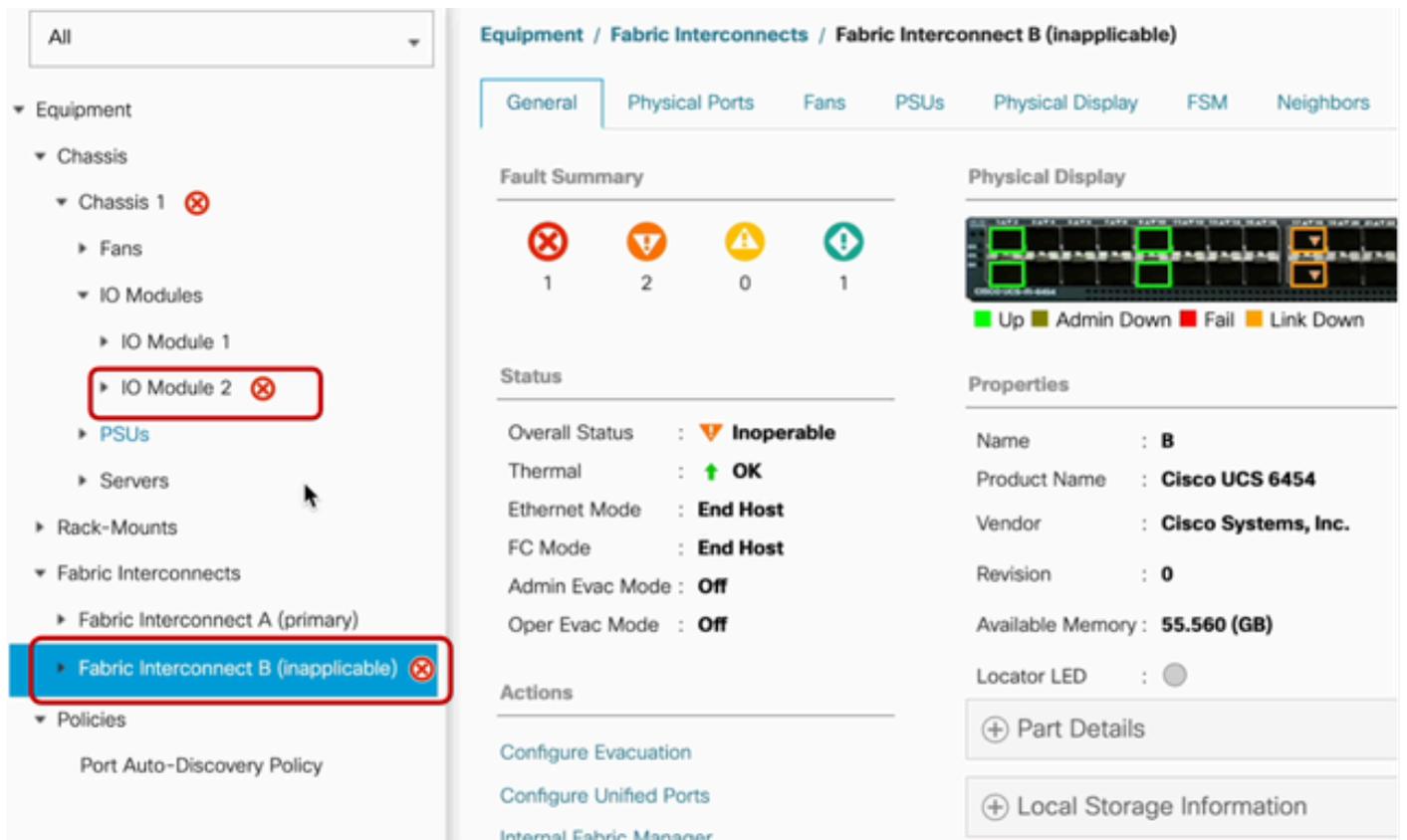


14 Fabric Interconnect

Upon completion, verify that the new firmware version is installed on the subordinate Fabric Interconnect by selecting the **subordinate Fabric Interconnect**

(in this case **Fabric Interconnect B** in the **Equipment** section of the navigation pane).

Scroll down under the **General** tab. In the **Firmware** section, observe the newly installed firmware version on the subordinate Fabric Interconnect.
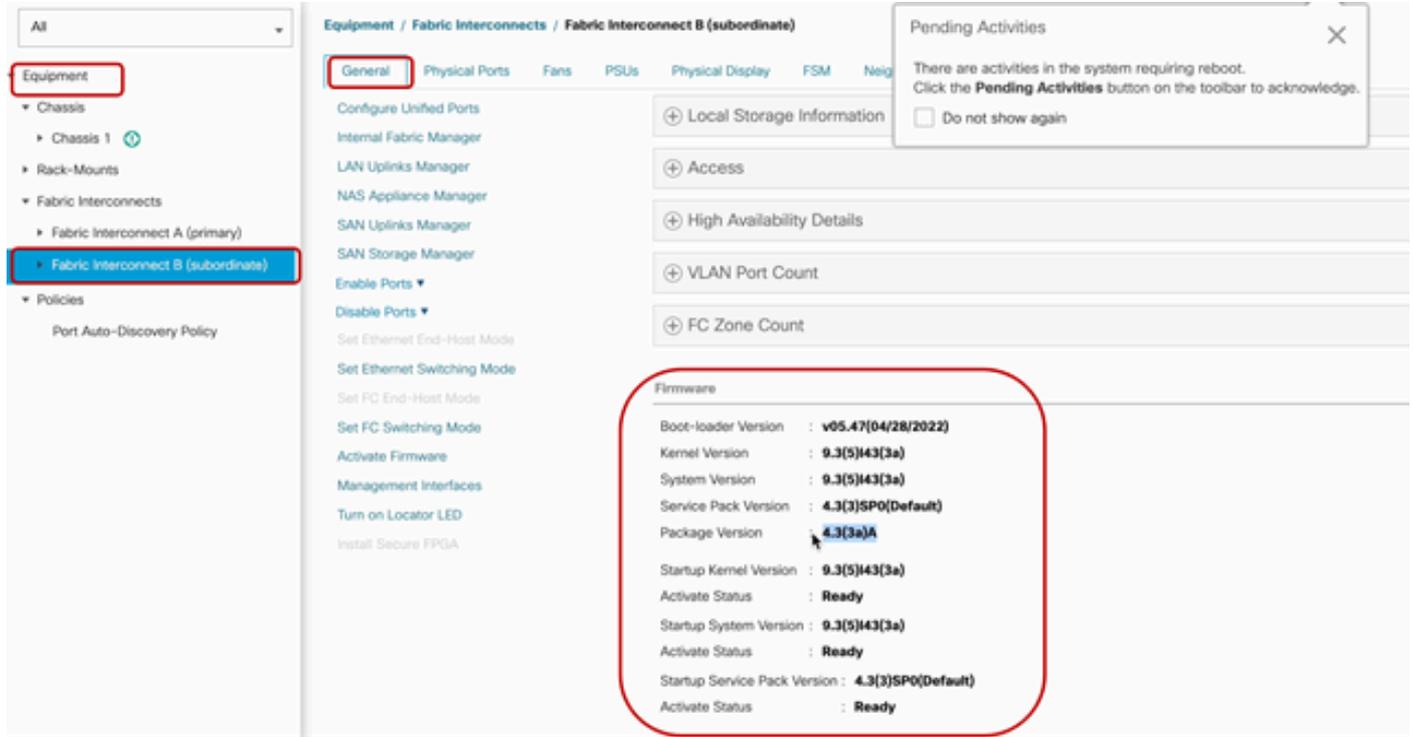


*14 Fabric Interconnect*

For completeness, the primary Fabric Interconnect needs to upgrade and be rebooted.

There is an alert that a reboot is required to make effective changes.
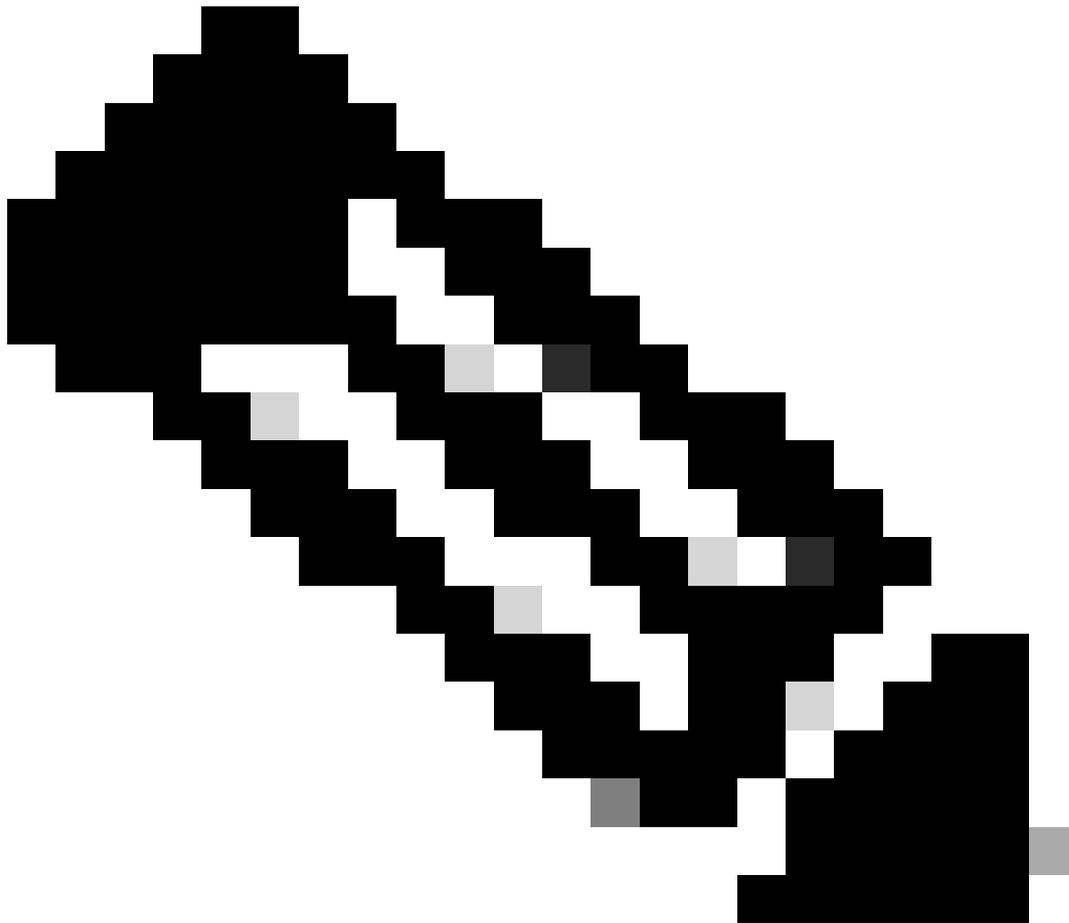
**Note**: This is a critical step. Verify that all paths are physically and virtually running as well as the high availability in both Fabric Interconnects prior to the reboot of the Fabric Interconnect A.

This is key to ensure success and avoid any downtime or outage. An Operating System or Virtual Machine seems to be running, however its secondary path is not fully up.

If this is the situation, upon Fabric Interconnect A reboot, the Operating System or the Virtual Machine possibly loses connection due to its inability to find a path.

Once all have been verified, proceed safely to reboot Fabric Interconnect A.

Click on the **Pending Activities**pop-up at the top right corner
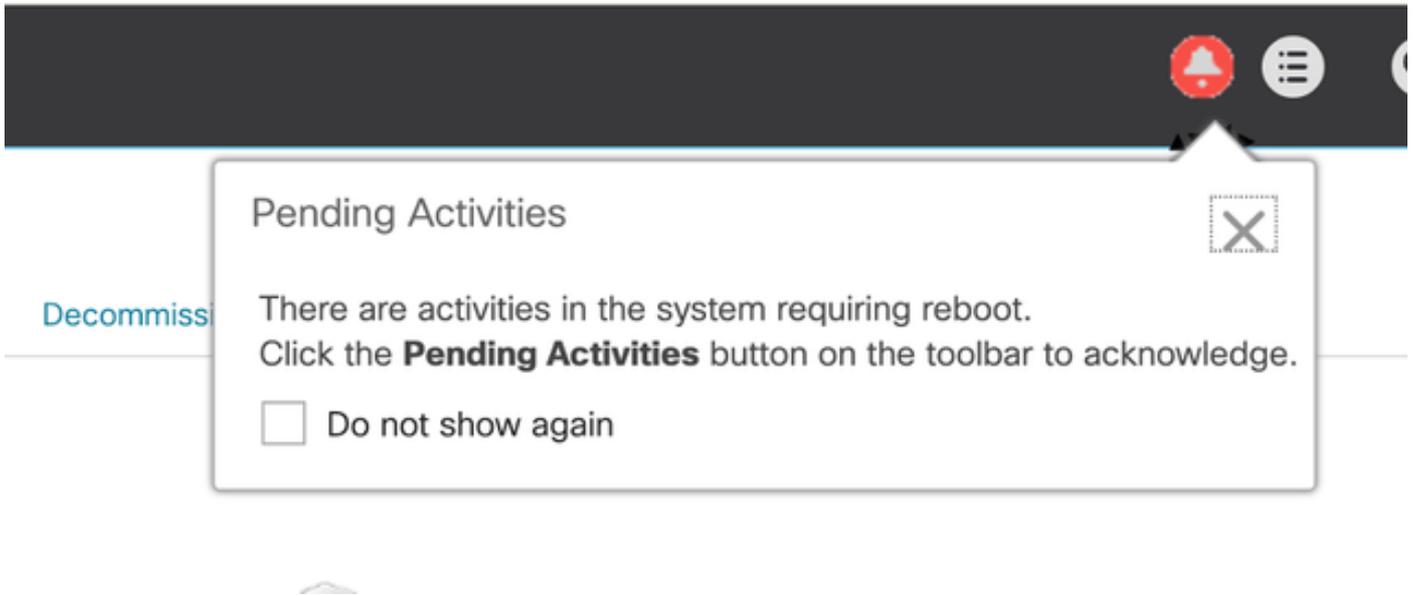
*14 Fabric Interconnect*

Select **Fabric Interconnects.** Click **Reboot Now.** Select **Yes** in the pop-up window and click **OK** to close the pop-ups.
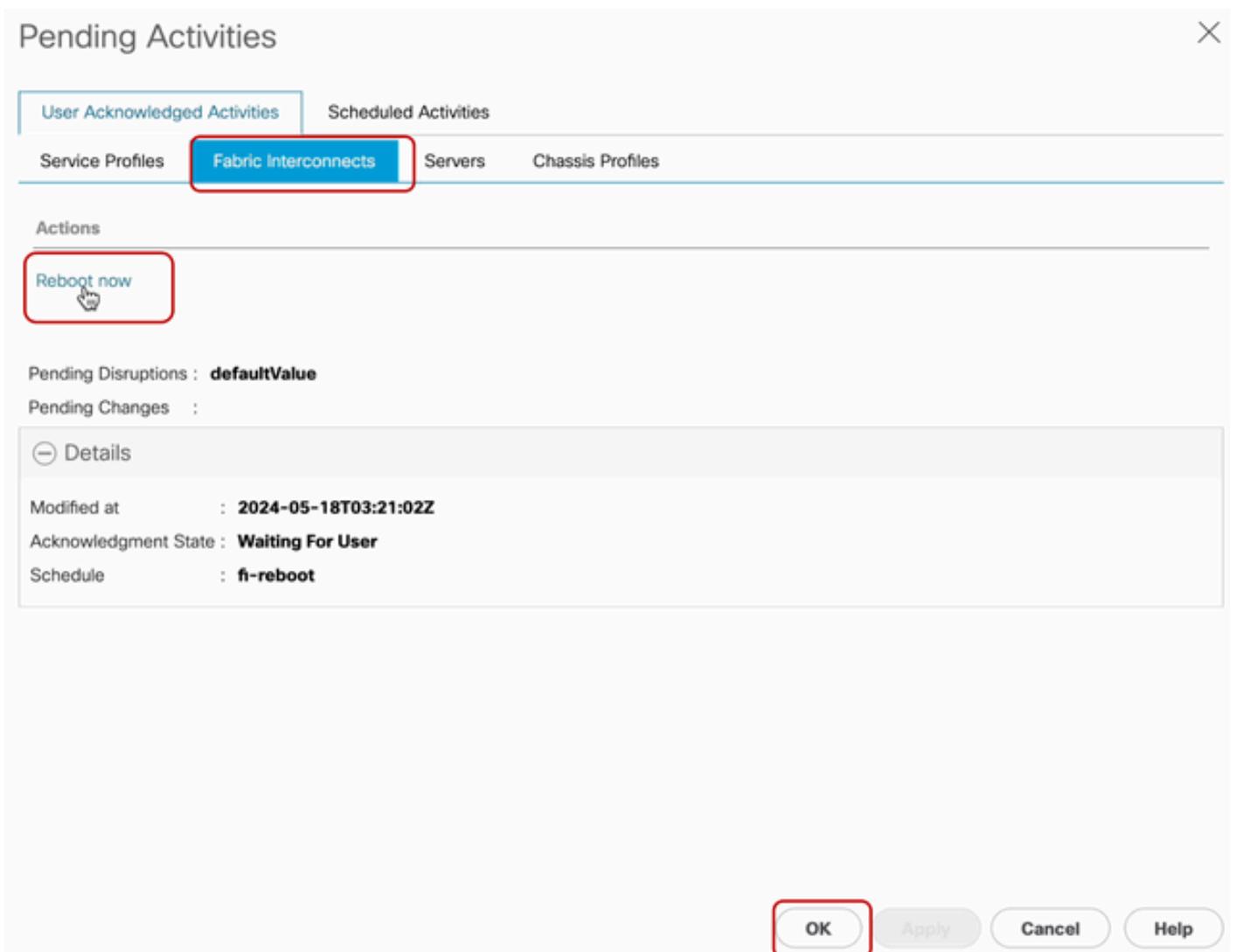


*17 Reboot, OK*

This action reboots the primary Fabric Interconnect to complete the firmware upgrade.

During this reboot process, the cluster leadership role of the system is taken over by the subordinate, hence you are logged out of UCS Manager temporarily.
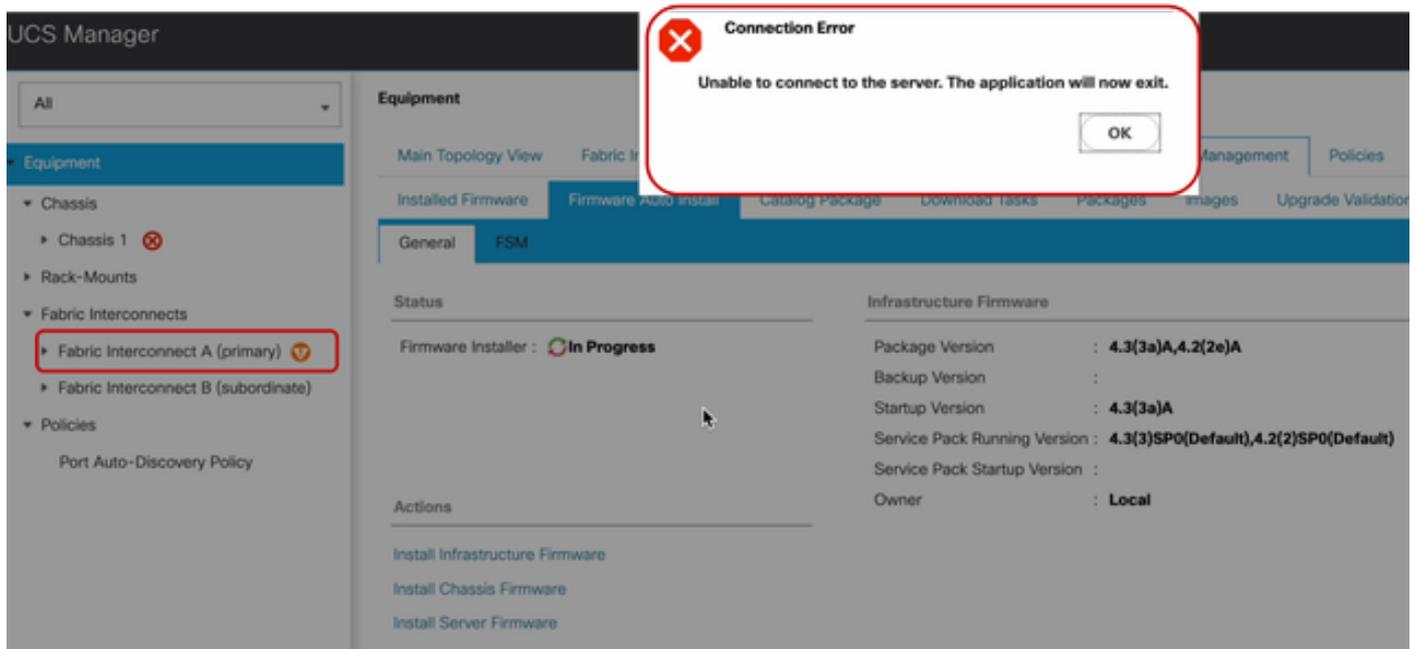


18 Connection Error

Once access to the UCS Manager GUI is restored, log back in.

Monitor the **FSM** once again to verify the upgrade progress.
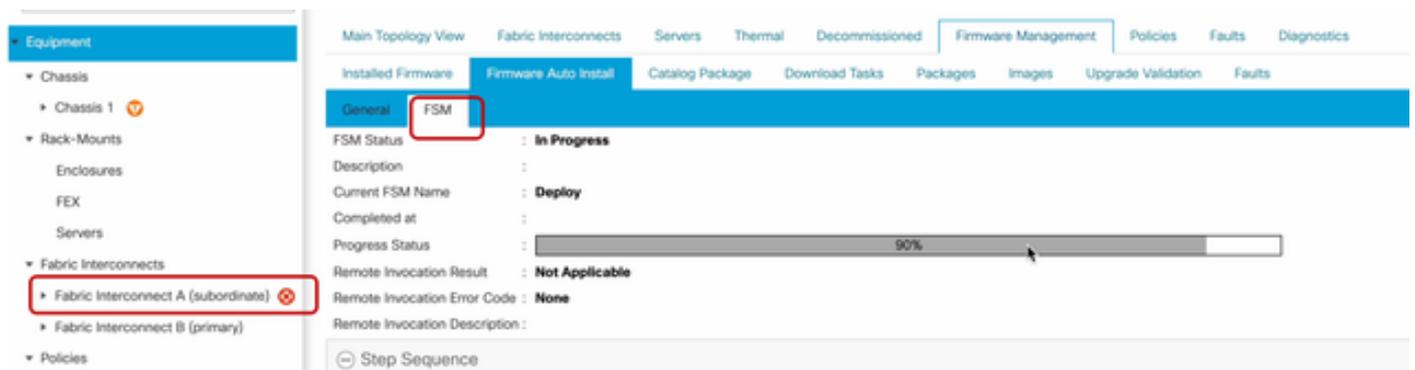


19 Fabric Interconnect A

Upon upgrade completion, the previousprimaryFabric Interconnectassumes thesubordinaterole in the cluster.

# Verification

To verify a successful UCS Manager upgrade, in the **Equipment** section of the navigation pane, select **Fabric Interconnects**.

Under the **Installed Firmware** tab, click the expand all plus (+) icon.

*20 Installed Firmware*

UCS Manager has been successfully upgraded.

If you previously configured the **evacuation** setting, remember to now disable it.
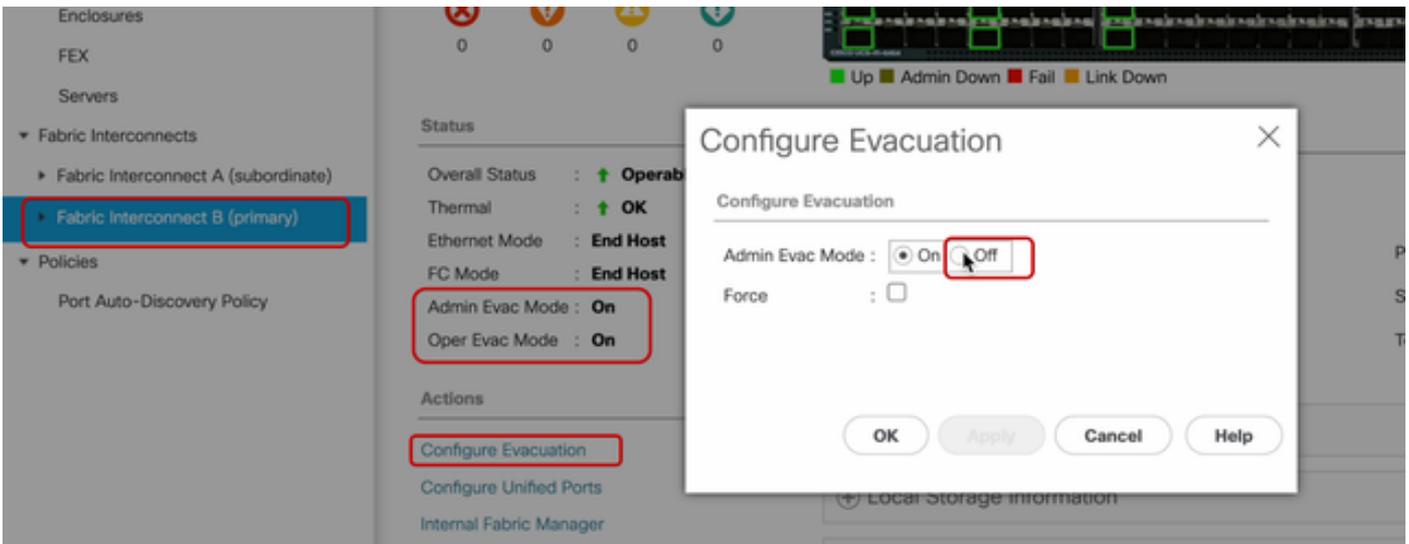


*21 Admin mode Off*

If required, you can change the cluster lead by using this CLI command in the **local-mgmt** mode:

**#cluster lead a**

*22 Connect Cluster Lead*

Type **Yes** to continue. You are then temporarily logged out of out of the CLI and GUI instances.

Log back into UCS Manager to verify that the cluster lead is now your previous primary Fabric Interconnect.

Your UCS Manager upgrade is now complete.