

Upgrade CIMC on APIC

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Introduction

This document describes how to upgrade the Cisco Integrated Management Controller (CIMC) on UCS C Series Servers running the Cisco APIC.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Unified Computing System (UCS) Servers
- Application Policy Infrastructure Controller (APIC)

Components Used

The information in this document is based on APIC servers running on UCS C Series Servers.

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.

Before You Upgrade

Upgrading the software version of the ACI Fabric can set new requirements on the CIMC version running on your Fabric, therefore, it is always advised to check the release notes of the APIC software version to know the list of supported CIMC software versions for a specific APIC release.

1. Check APIC Release notes, and confirm to which CIMC software image you need to upgrade to. Link to [APIC Release notes](#).
2. Obtain Software image from Cisco.com site.
3. Confirm that the MD5 Checksum of the image matches the one published on Cisco.com site.
4. The time needed for the process of upgrading a CIMC version varies based on the speed of the link between the Local Machine and the UCS-C chassis, and source/target software image and other internal

component versions.

5. CIMC upgrade does not impact the production network as APICs are not in the Data Path of the traffic.

6. When you upgrade the CIMC version it can also require changes to the Internet Browser, and Java Software version to run the Kernel-based Virtual Machine (vKVM).

To upgrade the APIC CIMC you can also use the [Cisco Host Upgrade Utility Based on Guide](#).

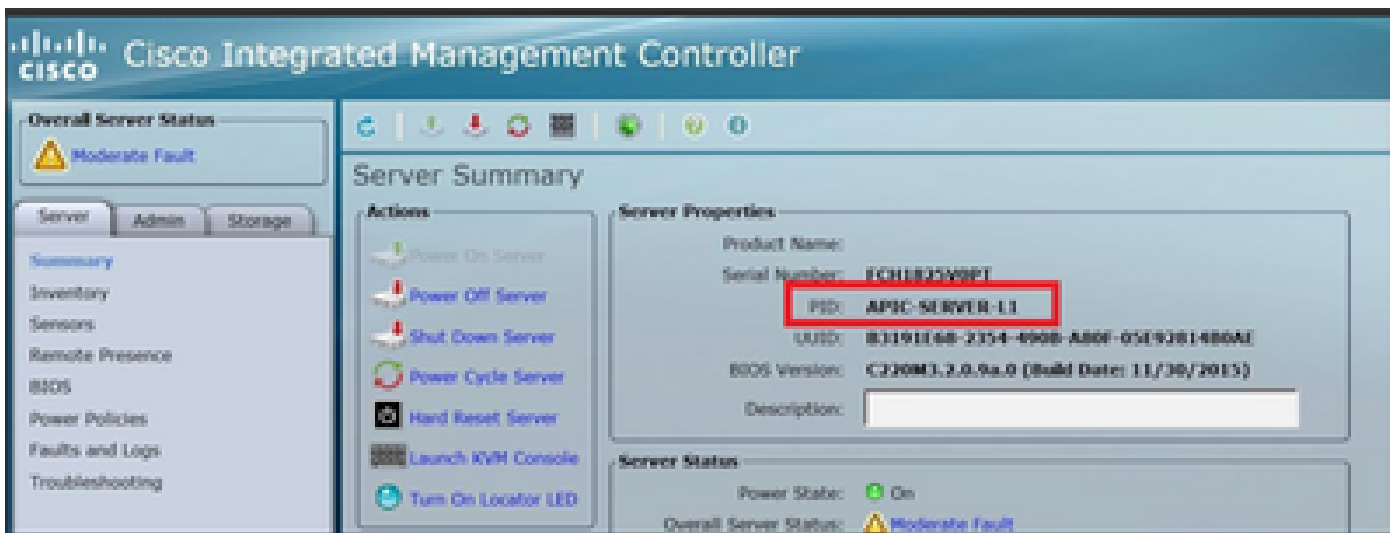
APIC servers running on UCS C Series Servers. Cisco UCS 220 M5, Cisco UCS 220 M4 (second generation appliances APIC-SERVER-M2 and APIC-SERVER-L2) or Cisco UCS 220 M3 (first generation appliance APIC-SERVER-M1 and APIC-SERVER-L1), with a minor difference that servers manufactured with an image secured with Trusted Platform Module (TPM), certificates and an APIC product ID (PID).

APIC Platform	Corresponding UCS Platform	Description
APIC-SERVER-M1	UCS-C220-M3	Cluster of three Cisco APIC first generation controllers with medium size CPU, hard drive, and memory configurations for up to 1000 edge ports.
APIC-SERVER-M2	UCS-C220-M4	Cluster of three Cisco APIC second generation controllers with medium size CPU, hard drive, and memory configurations for up to 1000 edge ports.
APIC-SERVER-M3	UCS C220 M5	Cluster of three Cisco APIC second generation controllers with medium size CPU, hard drive, and memory configurations for up to 1000 edge ports.
APIC-SERVER-L1	UCS-C220-M3	Cluster of three Cisco APIC first generation controllers with large size CPU, hard drive, and memory configurations for more than 1000 edge ports.
APIC-SERVER-L2	UCS-C220-M4	Cluster of three Cisco APIC second generation controllers with large size CPU, hard drive, and memory configurations for more than 1000 edge ports.
APIC-SERVER-L3	UCS C220 M5	Cisco APIC with large CPU, hard drive, and memory configurations (more than 1200 edge ports).

Procedure

Step 1. First Determine the APIC model.

You can check this in the CIMC GUI to verify the PID displayed under **Server> Summary**.



Step 2. Download Software.

From Cisco [Download Software](#) page, Navigate to **Select a Product > Downloads > Home Servers - Unified Computing > UCS C-Series Rack-Mount Standalone Server Software > Choose UCS 220 M3/M4/M5** based on the generation of APIC > **Unified Computing System (UCS) Server Firmware**.

Software Download

My Previous Downloads

Product	Software Type	Latest Release	Last Downloaded
Application-Centric Infrastructure Simulator	Application-Centric Infrastructure (ACI) Simulator Software	3.2(0a)	3.2(0a)
2504 Wireless Controller	Wireless LAN Controller Software	--	8.5.125-0
UCS C220 M3 Rack Server Software	Unified Computing System (UCS) Server Firmware	--	3.8(a)

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- [UCS C220 M3 Rack Server Software](#)
- [UCS C220 M4 Rack Server Software](#)
- [UCS C220 M5 Rack Server Software](#)

Note: Ensure you check the recommended [CIMC Version and Software Release Guide](#) to download the recommended CIMC firmware version for your current ACI software release.

Use CIMC APIC recommended firmware only instead of the latest or recommended one for that UCS model.

Step 3. Launch the KVM console from CIMC GUI.

Overall Server Status

Good

Server Admin Storage

Summary

Inventory

Sensors

Remote Presence

BIOS

Power Policies

Faults and Logs

Troubleshooting

Server Summary

Actions

Power On Server

Power Off Server

Shut Down Server

Power Cycle Server

Hard Reset Server

Launch IPM Console

Turn On Locator LED

Server Properties

Product Name:

FC01800V10C

Serial Number:

APIC-SERVER-11

UUID:

03052754-7042-6034-0210-A6070E4F1740

BIOS Version:

C120003.3.0.06.0 (Build Date: 06/22/10)

Description:

ACI Lab - P0001 - lab01-ac01-uc01

Asset Tag:

Server Status

Power State:

On

Overall Server Status:

Good

Temperature:

Good

Overall IPMI Status:

Good

Power Supplies:

Good

Fans:

Good

Locator LED:

Off

Overall Storage Status:

Good

Cisco Integrated Management Controller (Cisco IMC) Information

Hostname:

lab01-ac01-uc01

IP Address:

10.40.10.203

MAC Address:

F4:0F:10:10:00:20

Firmware Version:

3.0(4)

Current Time (UTC):

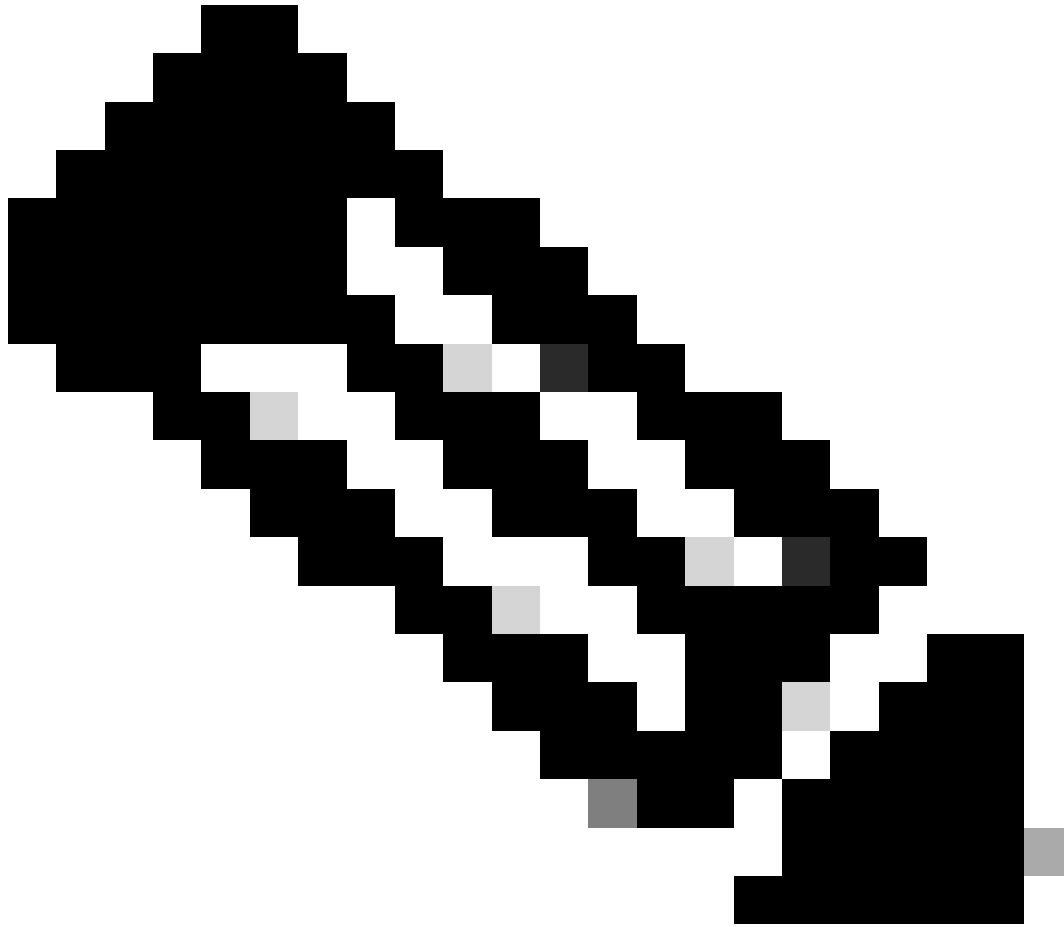
Tue Oct 23 09:34:43 2018

Local Time:

Tue Oct 23 09:34:43 2018 UTC +0000

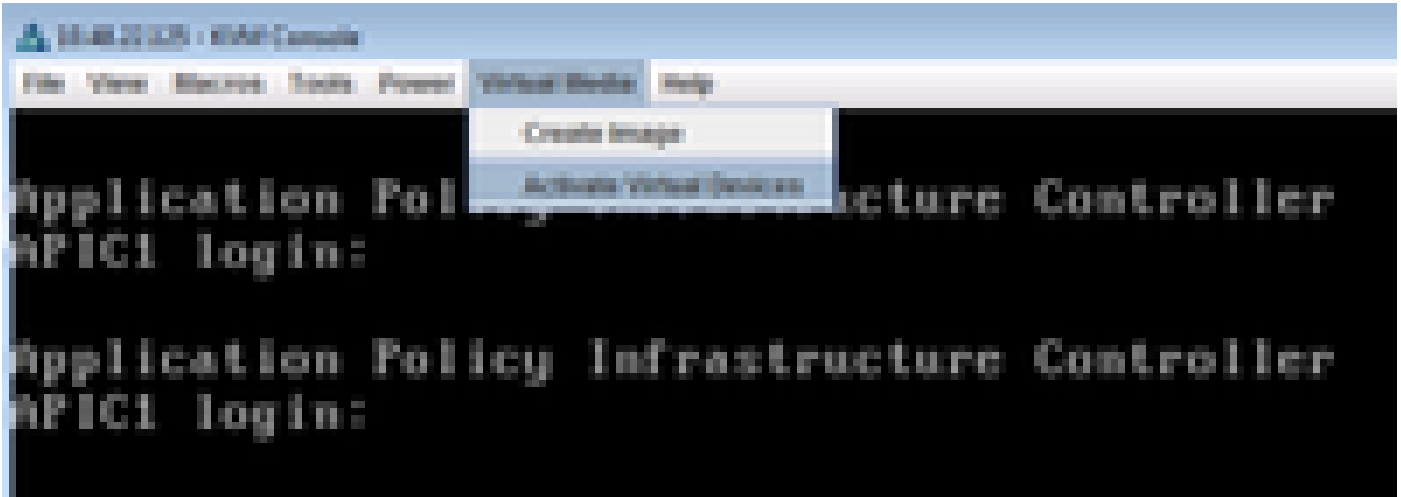
The HTML Viewer requires Java 1.6.0_34 or higher for proper functioning. It seems that you have either not installed Java or has Java lower than 1.6.0_34. Would you still like to continue?

OK Cancel

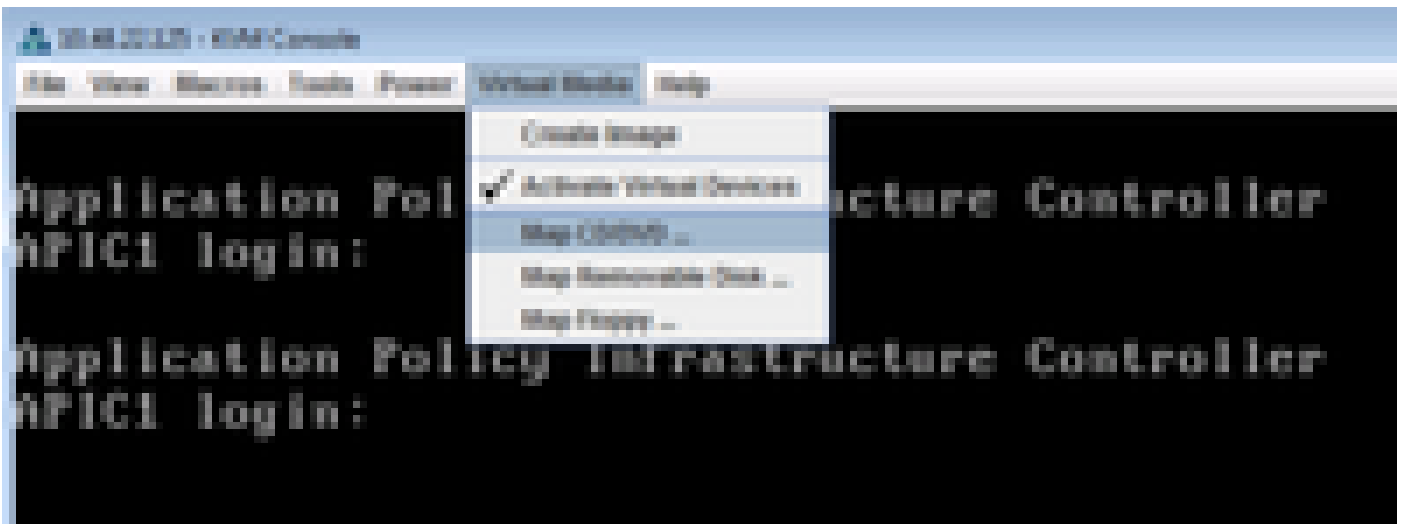


Note: If you are having problems opening the KVM console, this is generally an issue with your JAVA version. Do read the Release Notes for your CIMC version to learn the different workarounds available.

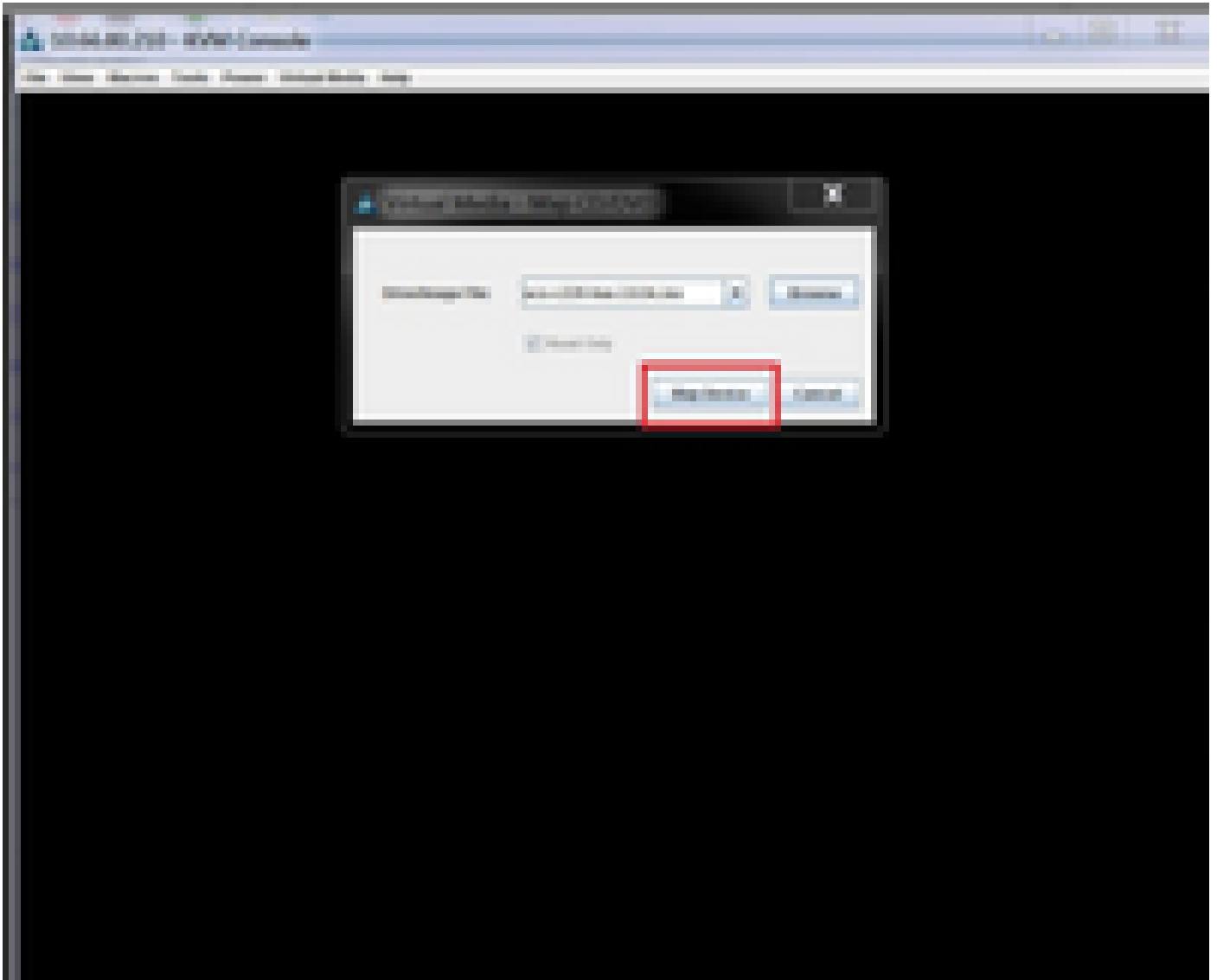
Step 4. In order to activate the virtual device, navigate to **Virtual Media > Activate Virtual Devices** as shown in the image.



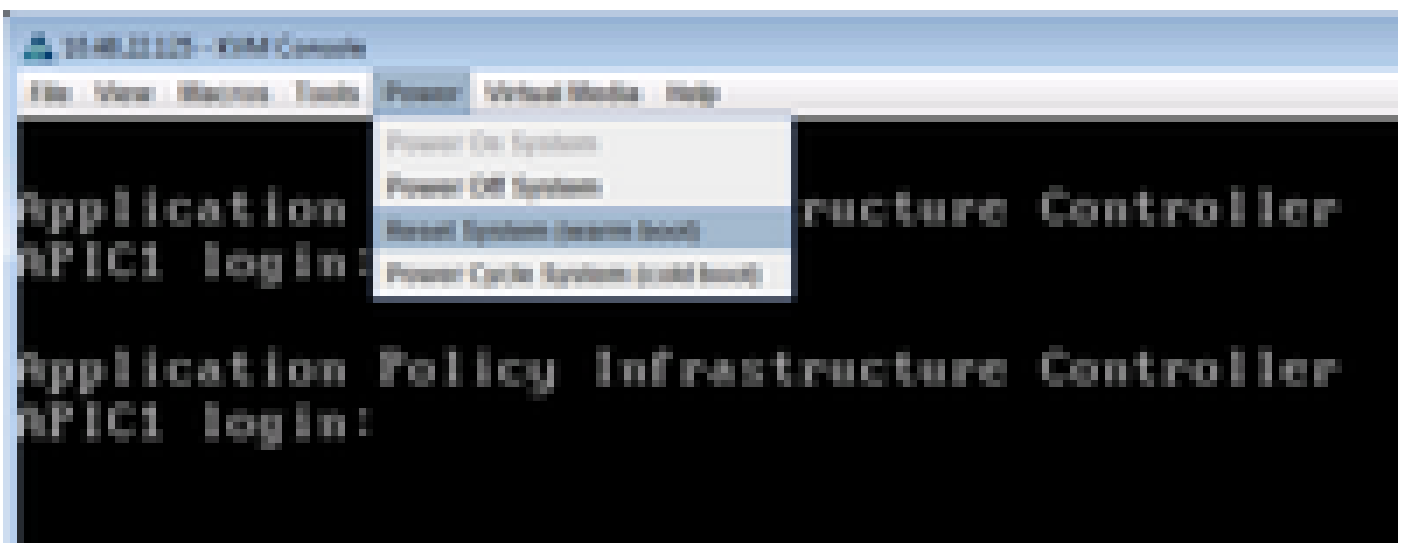
Step 5. In order to map the downloaded ISO image as a CD/DVD, navigate to **Virtual Media > Map CD/DVD** as shown in the image.



Step 6. **Browse** the ISO Image from the local machine and then click **Map Device** as shown in the image.

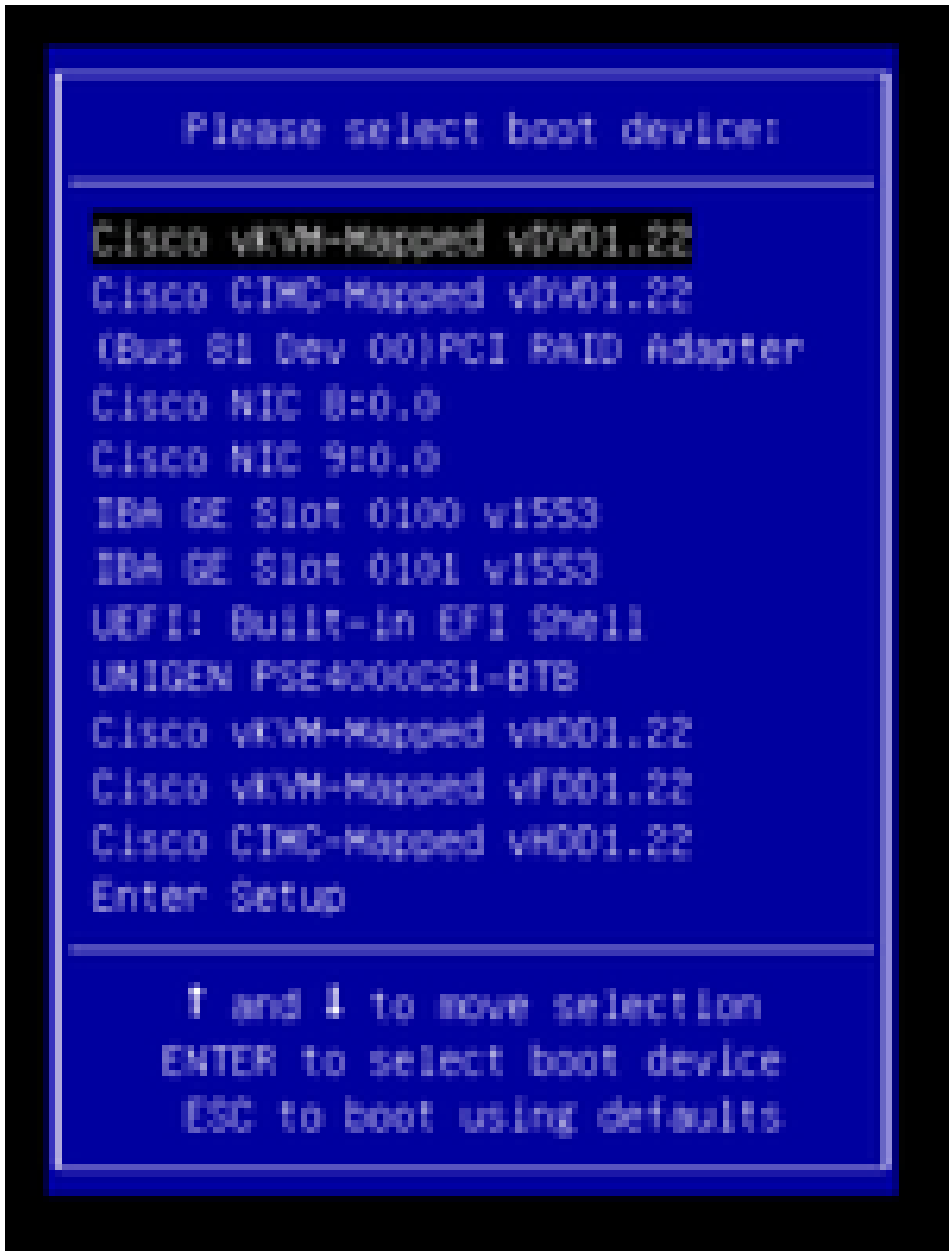


Step 7. In order to Reboot, navigate to **Power > Reset System (warm boot)** as shown in the image.



Step 8. In order to get into the Boot menu, press **F6** after the system reboots as shows in the image.

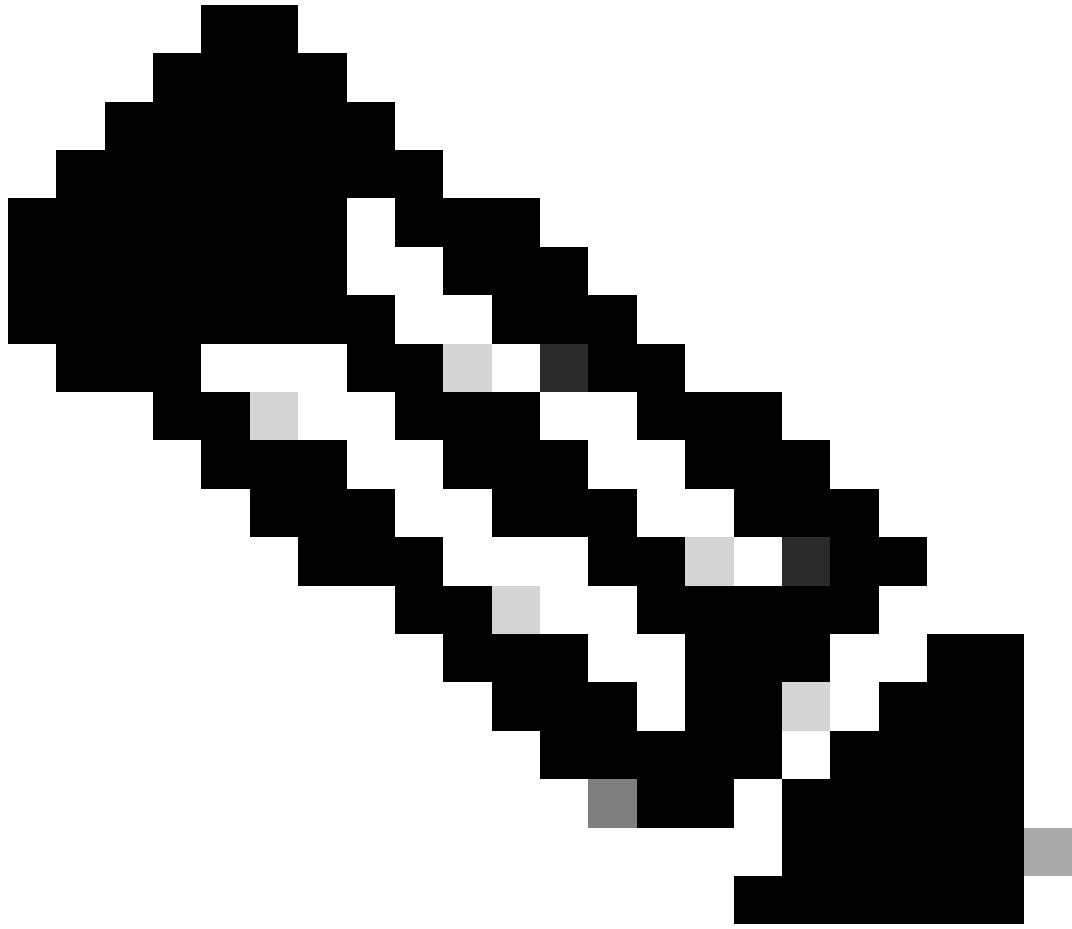
Step 10. Choose the boot device **vKVM mapped vDVD1.22** as shown in the image.



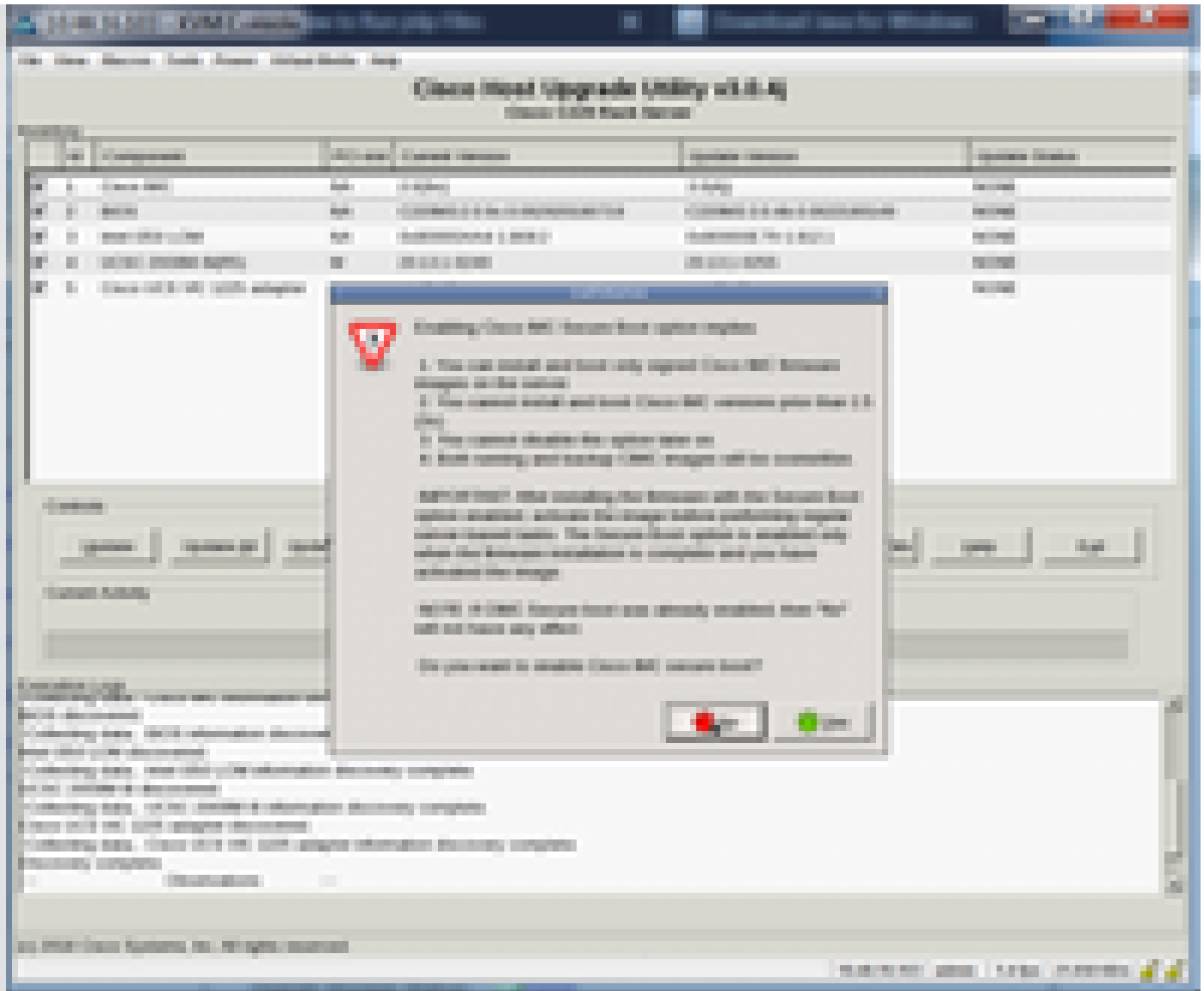
Step 11. Now, Cisco UCS Host Upgrade Utility starts as shown in the image.



Step 12. Read the License agreement and click **I Agree** as shown in the image.

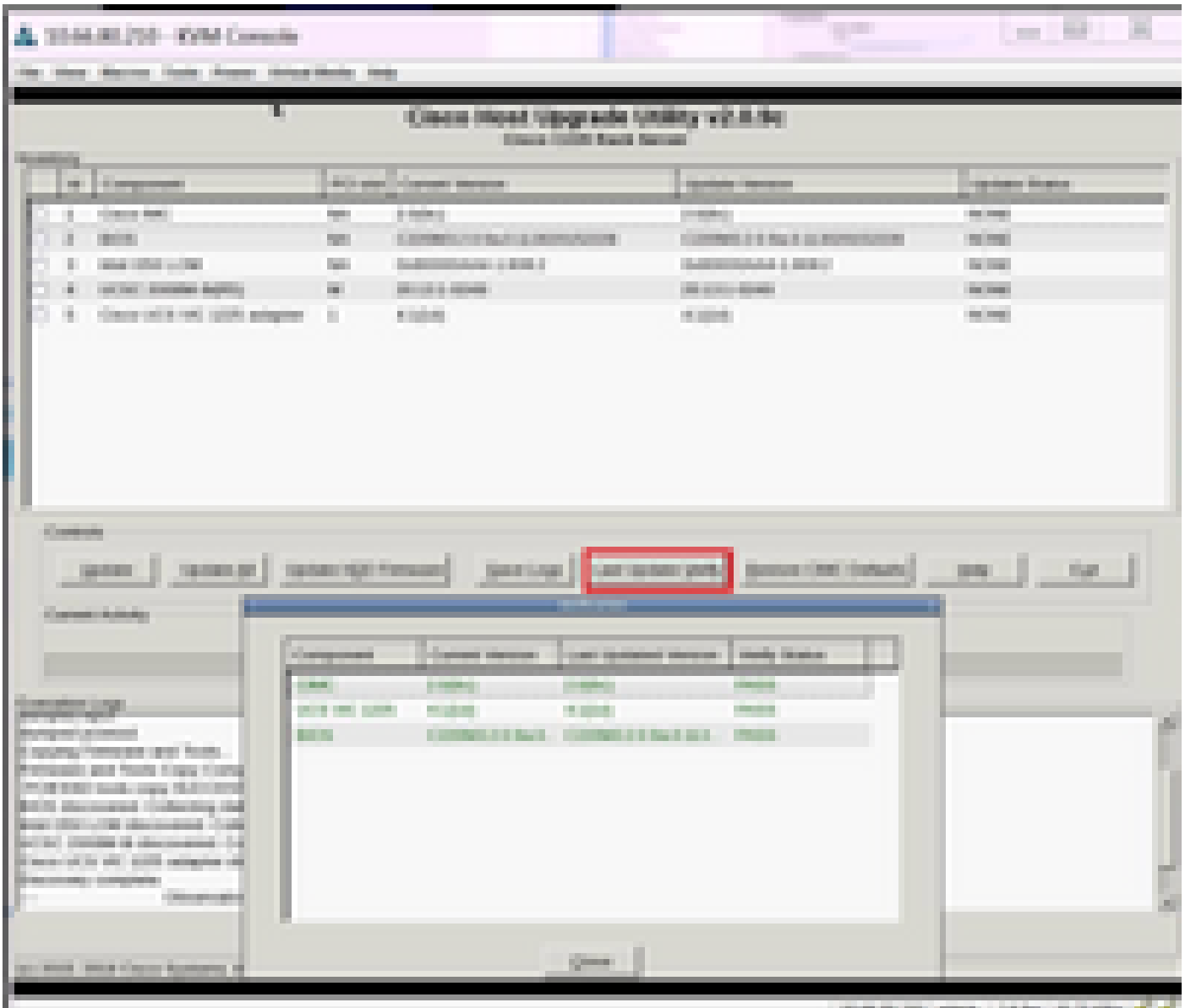


Note: During the upgrade, APIC can show disconnections.



Step 15. HUU upgrades each component individually. Once it is done it reboots the unit, and then you can access the chassis using GUI and CLI.

When the server reboots, you are pushed out of the CIMC GUI. You need to log back into the CIMC and verify the upgrade has completed successfully. In order to do this, you can verify via the GUI, or boot up the CIMC host Upgrade Utility and select **Last Update Verify** to ensure all components passed the upgrade successfully.



Step 16. In order to verify the successful upgrade of this version, log on to the CIMC GUI and navigate to **Admin > Firmware Management** and check the **Cisco IMC Firmware** as shown in the image.

