



# Accessing the Management Firmware

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## CIMC Overview

The Cisco Integrated Management Controller (CIMC) is the management service for the E-Series Servers and the NCE. CIMC runs within the server. You can use a web-based GUI or the SSH-based CLI to access, configure, administer, and monitor the server.

You can use CIMC to perform the following server management tasks:

- Power on, power off, power cycle, reset, and shut down the server
- Configure the server boot order
- Manage RAID levels



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**Note** The RAID feature is applicable to E-Series Servers and the SM E-Series NCE. The RAID feature is not applicable to the EHWIC E-Series NCE and the NIM E-Series NCE.

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- View server properties and sensors
- Manage remote presence
- Create and manage local user accounts, and enable remote user authentication through the Active Directory
- Configure network-related settings, including NIC properties, IPv4, IPv6, VLANs, and network security
- Configure communication services, including HTTP, SSH, IPMI over LAN, SNMP, and Redfish
- Manage certificates
- Configure platform event filters

- Update CIMC firmware
- Update BIOS firmware
- Install the host image from an internal repository
- Monitor faults, alarms, and server status
- Collect technical support data in the event of server failure

Almost all tasks can be performed in either the GUI interface or CLI interface, and the results of tasks performed in one interface are displayed in another. However, you *cannot*:

- Use the CIMC GUI to invoke the CIMC CLI
- View a command that has been invoked through the CIMC CLI in the CIMC GUI
- Generate CIMC CLI output from the CIMC GUI

## CIMC GUI

The CIMC GUI is a web-based management interface for E-Series Servers and the NCE. You can launch the CIMC GUI and manage the server from any remote host that meets the following minimum requirements:

- Java 1.6 or later
- HTTP and HTTPS enabled
- Adobe Flash Player 10 or later

## CIMC CLI

The CIMC CLI is a command-line management interface for E-Series Servers and the NCE. You can launch the CIMC CLI in the following ways:

- By the serial port.
- Over the network by SSH.
- From the router. Use one of the following commands as appropriate:
  - **ucse slot session imc**—Use for E-Series Servers and the SM E-Series NCE installed in a Cisco ISR G2. Applicable from Cisco IOS Release 15.2(4)M to 15.4(2)T.
  - **ucse subslot slot/subslot session imc**—Use for E-Series Servers, SM E-Series NCE, and EHWIC E-Series NCE installed in a Cisco ISR G2. Applicable in Cisco IOS Release 15.4(3)M.
  - **hw-module subslot slot/subslot session imc**—Use for E-Series Servers and the NIM E-Series NCE installed in a Cisco ISR 4000 series.

A CLI user can have one of the three roles: admin, user (can control but cannot configure), and read-only.

# Logging In to the CIMC GUI

## Before you begin

- Make sure that you have configured the IP address to access CIMC.
- If not installed, install Adobe Flash Player 10 or later on your local machine.

## Procedure

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**Step 1** In your web browser, enter the IP address that you configured to access CIMC during initial setup.

**Step 2** If a security dialog box displays, do the following:

- a) (Optional) Check the check box to accept all content from Cisco.
- b) Click **Yes** to accept the certificate and continue.

**Step 3** In the log in window, enter your username and password.

**Tip** When logging in for the first time to an unconfigured system, use **admin** as the username and **password** as the password.

**Step 4** Click **Log In**.

The **Change Password** dialog box appears.

**Note** The **Change Password** dialog box only appears the first time you log into CIMC. It does not appear for subsequent reboots.

**Step 5** In the **New Password** field, enter your new password.

**Step 6** In the **Confirm Password** field, enter the password again to confirm it.

**Step 7** Click **Save Changes**.

The **Server Summary** page appears, which is the CIMC home page. See [CIMC Home Page, on page 4](#).

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# CIMC Home Page

Figure 1: CIMC Home Page

The screenshot shows the Cisco Integrated Management Controller (CIMC) Home Page. The page is titled "Cisco Integrated Management Controller" and displays the following information:

- Server Properties:**
  - Product Name: E160S
  - Serial Number: FOC20091NAS
  - PID: UCS-E160S-M3/K9
  - UUID: A89D21FC-650C-0000-D719-30E7E3C41835
  - BIOS Version: UCSEM3\_2.6 (Build Date: 07/12/2018)
  - Description:
  - Asset Tag:
- Cisco Integrated Management Controller (Cisco IMC) Information:**
  - Hostname: E160S-FOC20091NAS
  - IP Address: 192.168.164.42
  - MAC Address: A8:9D:21:FC:65:0E
  - Firmware Version: 3.2(4.20180206163853)
  - CPLD Version: 4.0
  - Hardware Version: 2
  - Current Time (UTC): Fri Jul 13 01:27:34 2018
  - Local Time: Fri Jul 13 01:27:34 2018 UTC +0000
  - Timezone: UTC [Select Timezone](#)
- Router Information:**
  - Router Model: ISR4351/K9
  - Serial Number: FDO1826A01D
  - Slot Number: Service Module slot 1
- Chassis Status:**
  - Power State: ● On
  - Overall Server Status: ✔ Good
  - Overall DIMM Status: ✔ Good
  - Overall Storage Status: ✔ Good

The page also includes a navigation bar at the top with the Cisco logo, a search icon, and a user profile icon. The user profile icon shows a checkmark and the number 0, and the user name is admin@192.168.164.70 - E160S-FOC20091NAS. The navigation bar also includes links for Refresh, Host Power, Launch KVM, Ping, Reboot, and help icons.

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## What to Do Next

If you purchased E-Series Server Option 1 (E-Series Server without a preinstalled operating system or hypervisor), configure RAID. See [Managing Storage Using RAID](#).



### Note

The RAID feature is applicable to E-Series Servers and the SM E-Series NCE. The RAID feature is not applicable to the EHWIC E-Series NCE and the NIM E-Series NCE.