Installing CMX 10.5 on Cisco MSE 3365

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Introduction

This document will guide network administrators through the installation of Cisco CMX 10.5 on the MSE 3365 appliance. This process also includes the instructions on how to set up Cisco Integrated Management Controller (CIMC) that is required for the installation.

> **Note**: **It is not possible to upgrade from CMX 10.2, 10.3 or 10.4 to 10.5. A fresh new installation is required.** If you try to upgrade directly, the following error message will pop up:
>
> *MD5 did not match, looks like the cmx file is corrupt. Please download fresh and try again.*
>
> Upgrade from 10.5 version to a newer version (e.g. from 10.5.0-206 to 10.5.1-26) can be done from the GUI: System->Settings->Upgrade
>
> In order to avoid hitting the CSCvn64747 when installing the 10.5.1, it is recommended to first install the 10.5.0 and then upgrade to 10.5.1.

Prerequisites

Requirements

Cisco MSE 3365.

Cisco CMX 10.5 ISO file.

Components Used

Components used in this guide:

- Cisco MSE 3365 with CIMC version 2.0(3i),

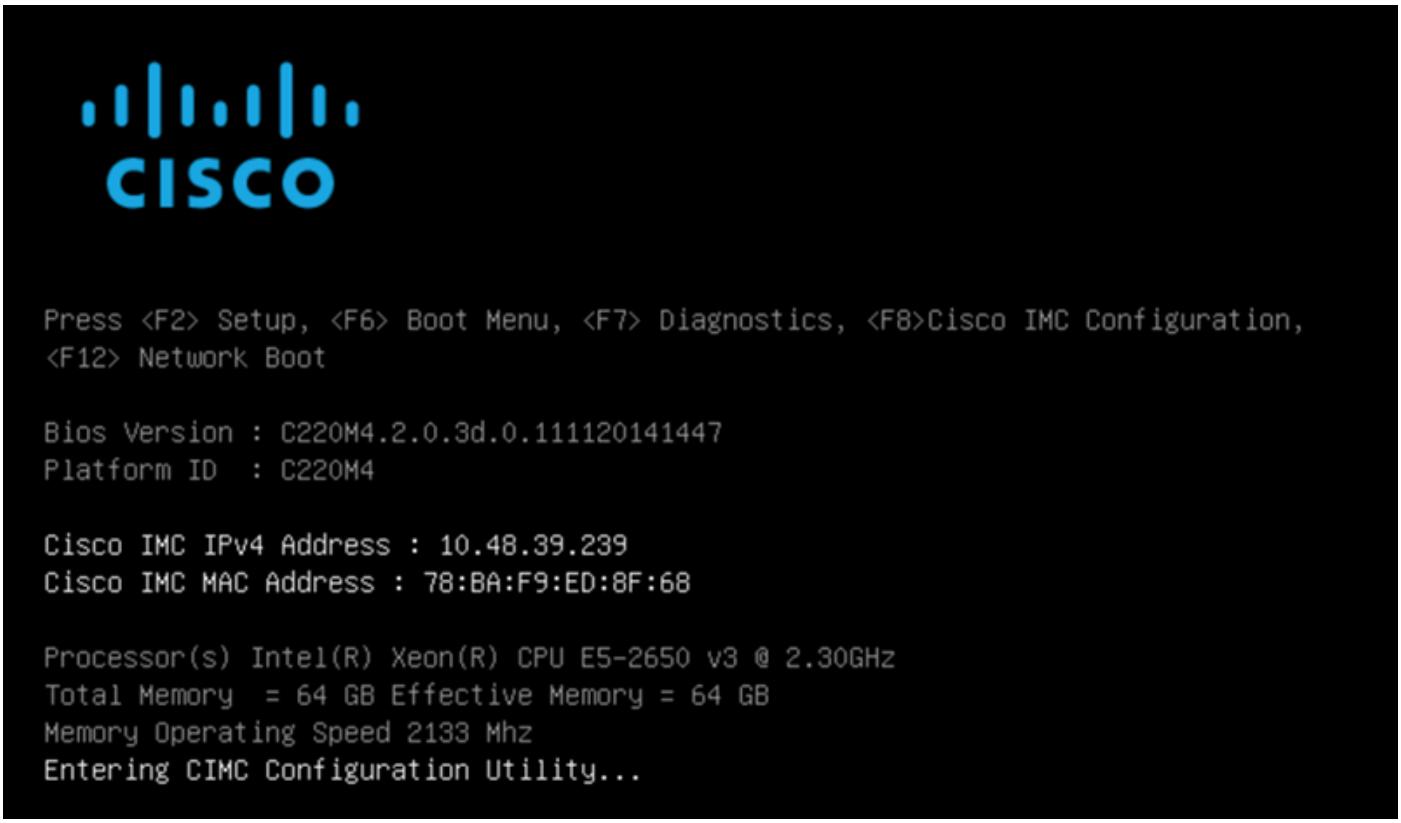
- Cisco Connected Mobile Experiences version 10.5.0-206.
- MacBook running MacOS Mojave and Google Chrome as Web Browser.

Configure

CIMC configuration and KVM launch

Step 1 Plug in monitor and keyboard. Boot up machine. Press **F8** to enter CIMC configuration:

Figure 1. Boot screen



Step 2 Configure the CIMC parameters, press **F10** to save and wait 45 seconds for changes to be applied. Press **F5** to refresh and verify the settings have been applied. Click **ESC** to exit.

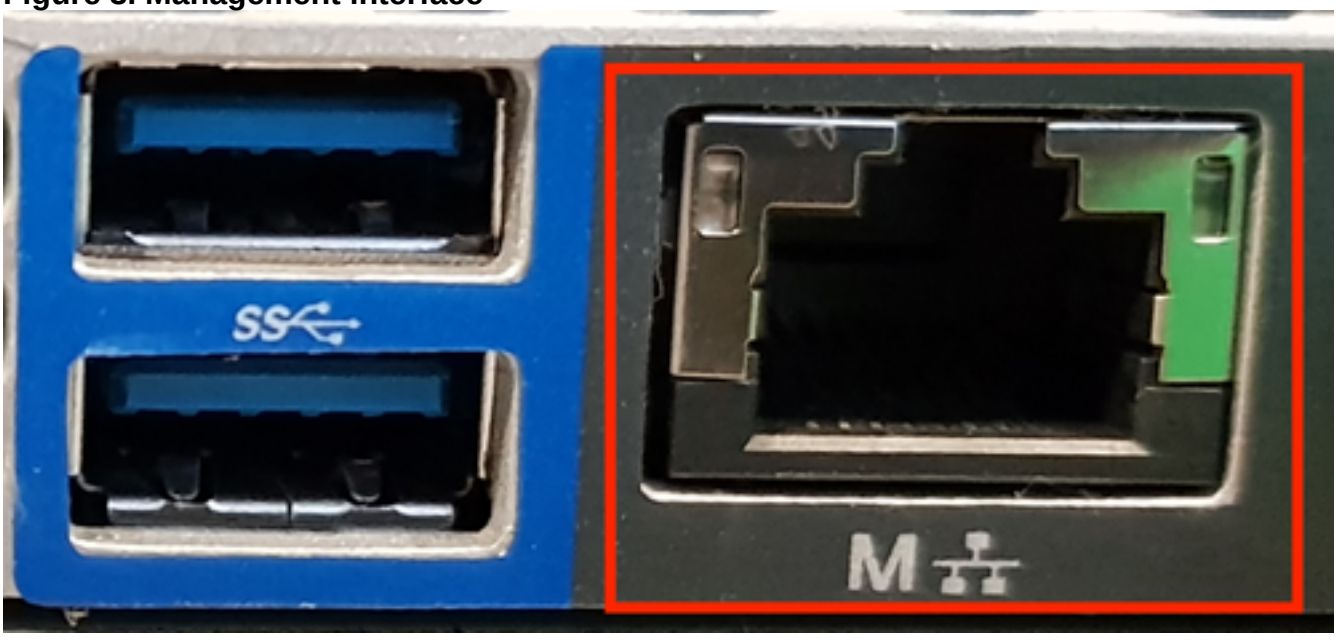
Figure 2. Cisco CIMC Configuration Utility

```
 Cisco IMC Configuration Utility Version 2.0  Cisco Systems, Inc.
**********************************************************************************
NIC Properties
 NIC mode                              NIC redundancy
 Dedicated:        [X]                  None:                [X]
 Shared LOM:       [ ]                  Active-standby:      [ ]
  Cisco Card:                           Active-active:       [ ]
   Riser1:         [ ]                 VLAN (Advanced)
   Riser2:         [ ]                  VLAN enabled:        [ ]
   MLom:           [ ]                  VLAN ID:             1
 Shared LOM Ext:   [ ]                  Priority:            0
IP (Basic)
 IPV4:             [X]       IPV6:    [ ]
 DHCP enabled      [ ]
 CIMC IP:          10.48.39.239
 Prefix/Subnet:    255.255.255.0
 Gateway:          10.48.39.5
 Pref DNS Server:  10.48.39.33

**********************************************************************************
<Up/Down>Selection   <F10>Save   <Space>Enable/Disable   <F5>Refresh   <ESC>Exit
<F1>Additional settings
```

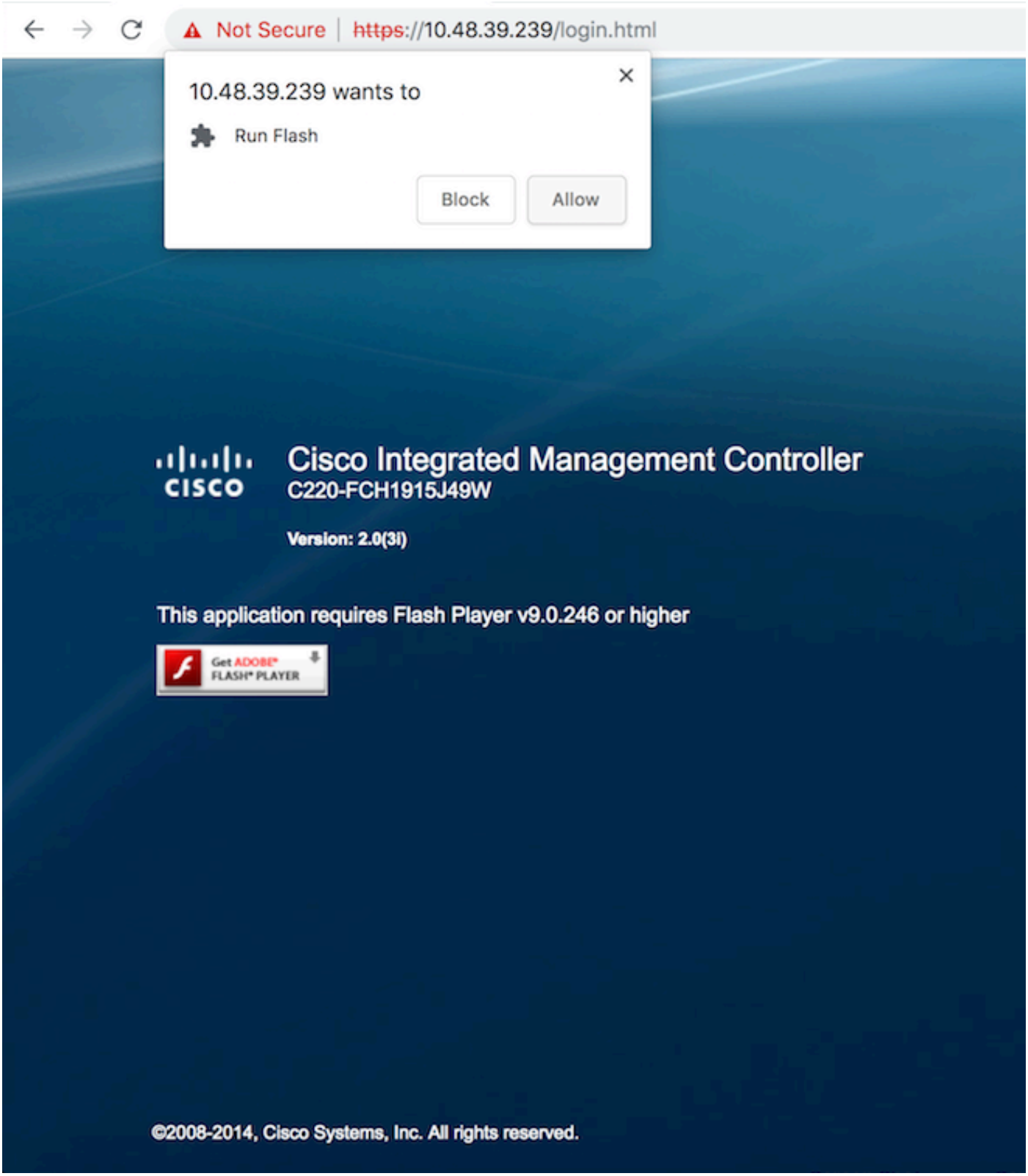
To get access to CIMC from your network, connect the MSE 3365 to the switch via management port located on the back side of the device.

Figure 3. Management interface



Step 3 In the Chrome Web Browser, go to http://<cimc_ip_address>. In the case permission is needed for Adobe Flash player to run, press **get Adobe flash player** and **Allow**:

Figure 4. Launching the CIMC interface

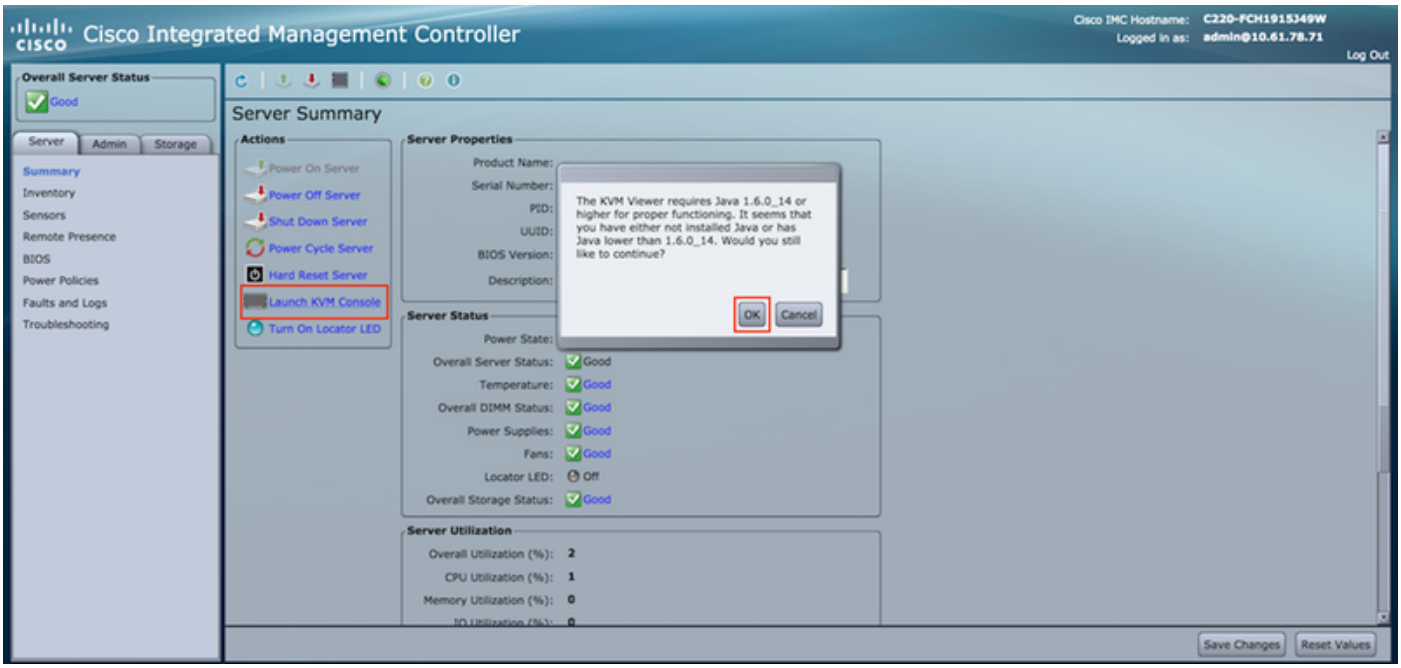


Step 4 When logging in for the first time, the default username will be *admin*. The default password is *password*.

Figure 5. CIMC GUI access

Step 5 Press **Launch KVM Console** and then **OK**. If you are running CIMC v2 (figure 5), Java version 1.6.0_14 or later is required to run KVM.

Figure 6. Launch KVM Console on CIMC v2

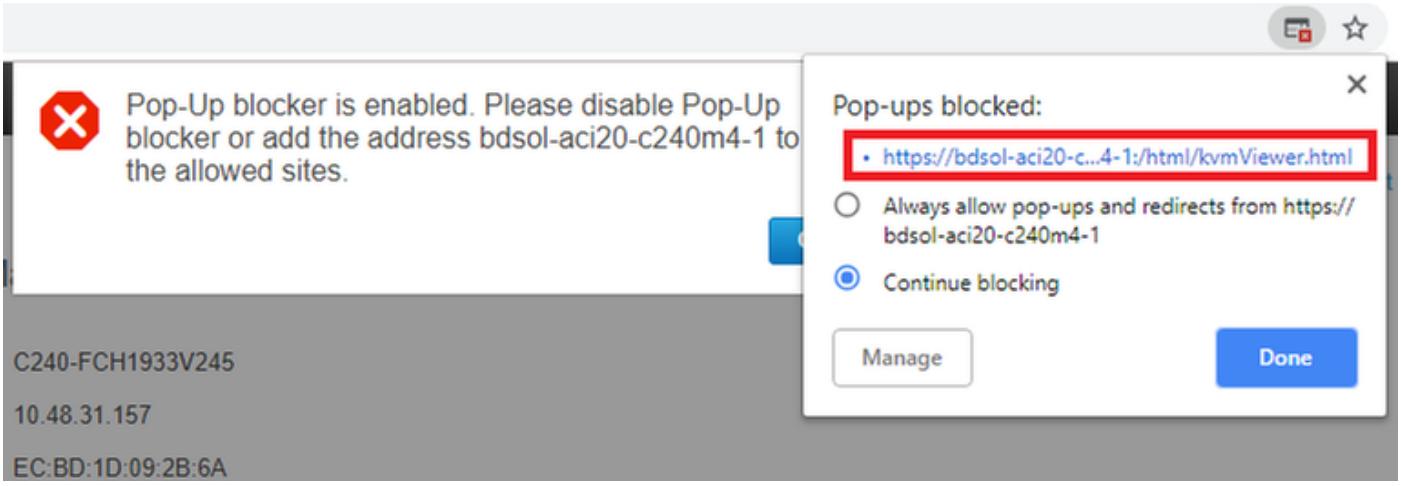


CIMC v3 (figure 6) supports HTML5 interface and does not require Java.

Figure 7. HTML based KVM

If you decide to use the HTML based KVM, you will have to enable pop-ups or click on the link to open the pop-up manually.

Figure 8. Enabling the pop-ups



Step 6 Once the KVM has launched, press on **Virtual Media** and **Activate Virtual Devices**. After virtual devices are activated, the dropdown menu will expand and additional options will show. Press "MAP CD/DVD" in order to map the ISO file:

Figure 9. Map the Virtual Media

Step 7 Select the downloaded a CMX image and press **Map Device**. Once pressed, the Virtual Media menu will expand again to show what image is mapped:

Figure 10. Map the Virtual Media

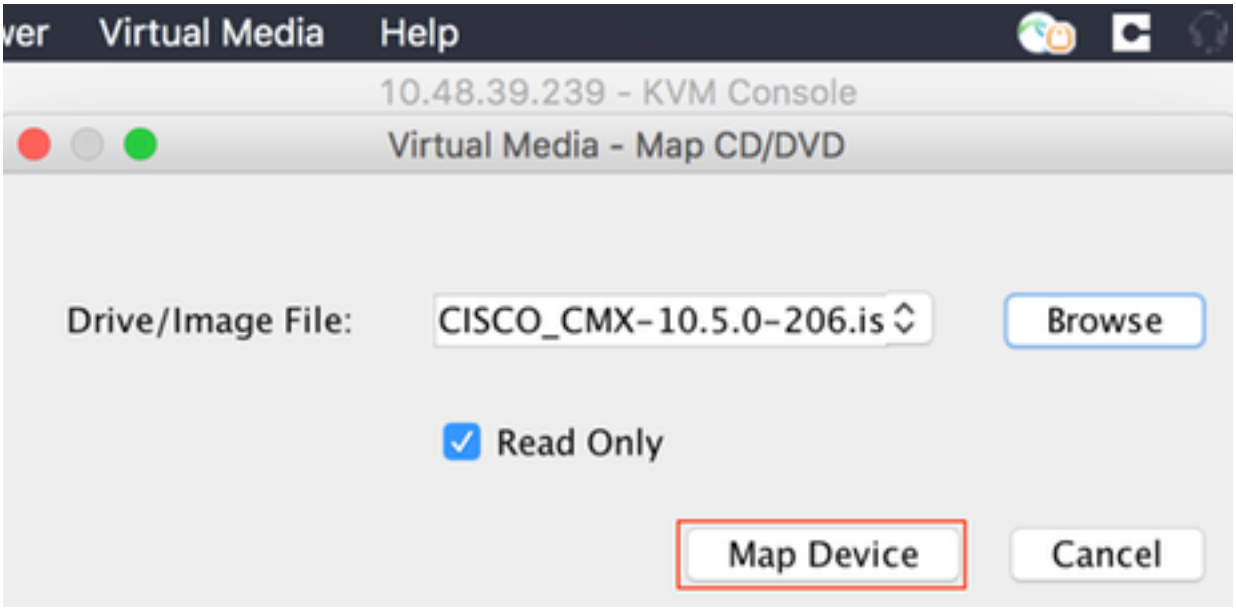


Figure 11. The dropdown Menu will expand and show the mapped image filename

Step 8 After checking the image is properly attached, go to **Power** tab and select **Reset System (warm boot)** to reset the machine. During the bootup process press **F7** to start the installation of the mapped image:

Figure 12. Power options on KVM

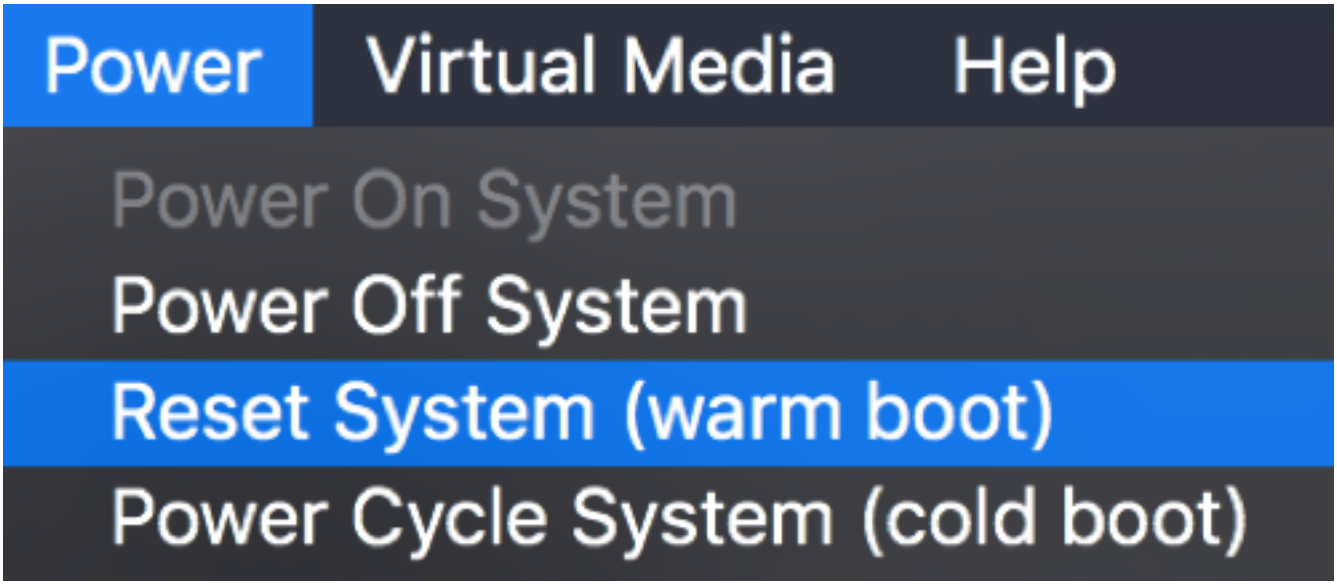
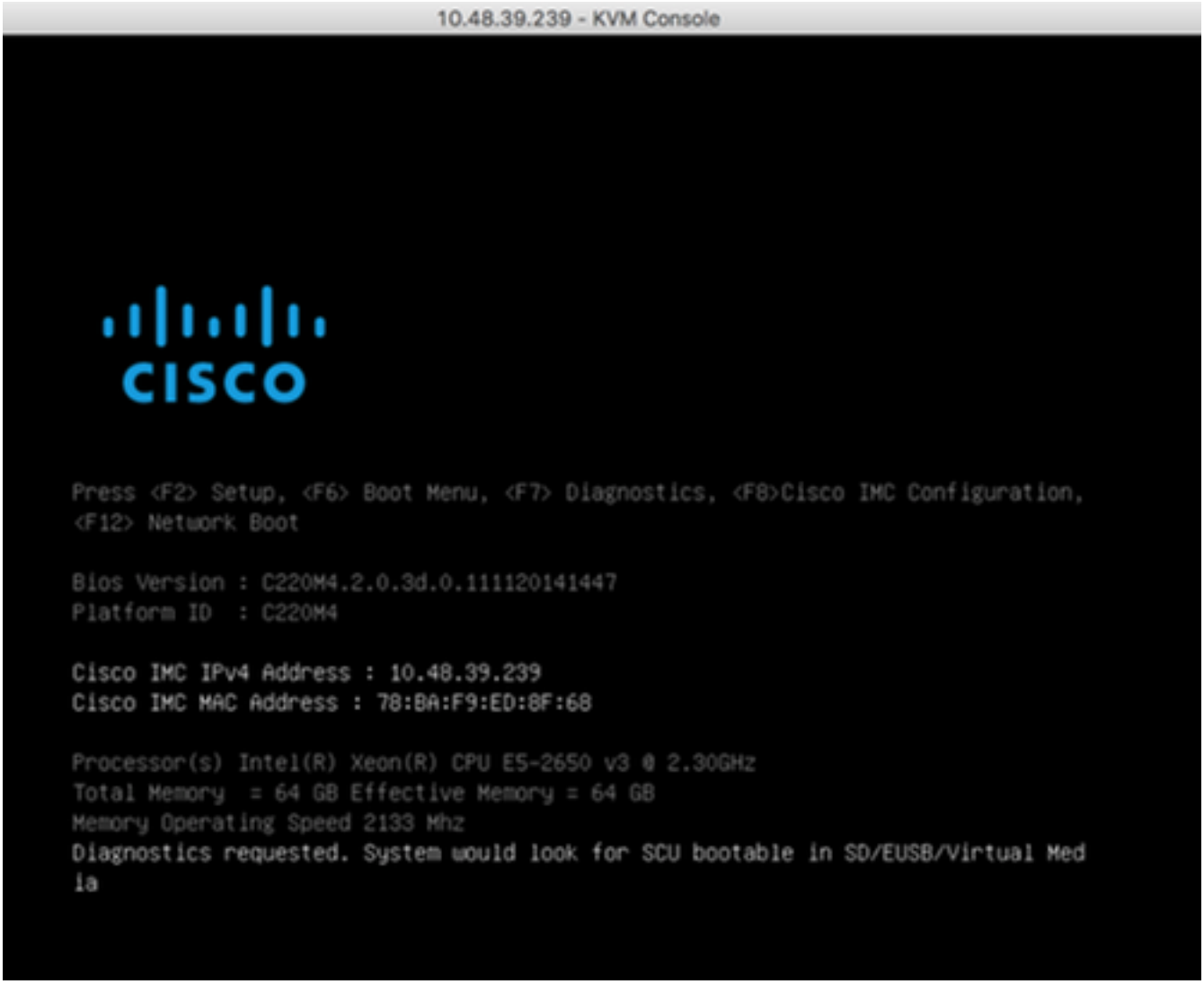


Figure 13. CIMC boot selection menu



CMX image installation

Step 1 Select **Install CMX using current console** to continue the installation. Once selected, the installation scripts will start loading:

Figure 14. CMX Install Method selection

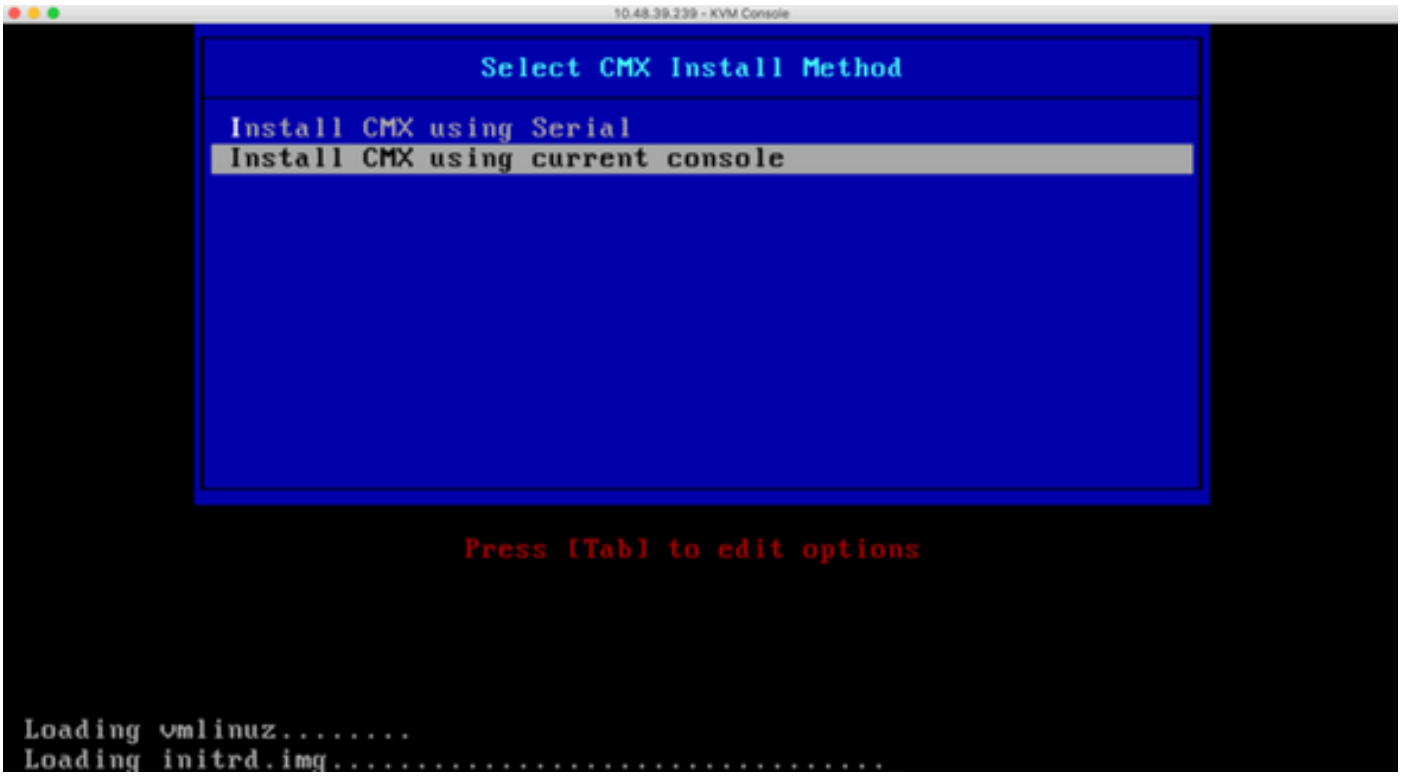
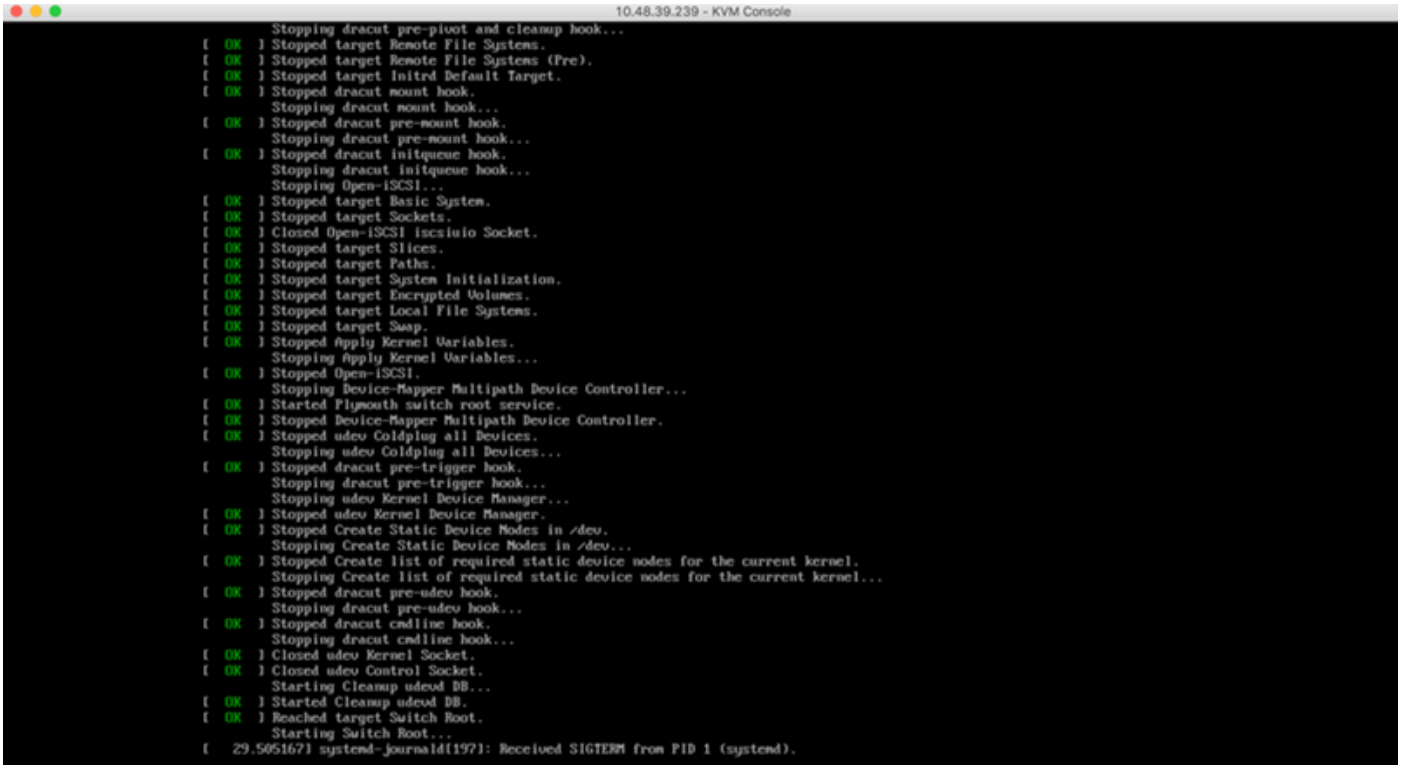


Figure 15. CentOS installation scripts trace



Step 2 Once the installer is starts, it will ask for confirmation. Type in **yes** and then press **Enter** to proceed with the installation. "Yes" might appear in the left upper corner:

Figure 16. Prompt to continue the installation might not be aligned

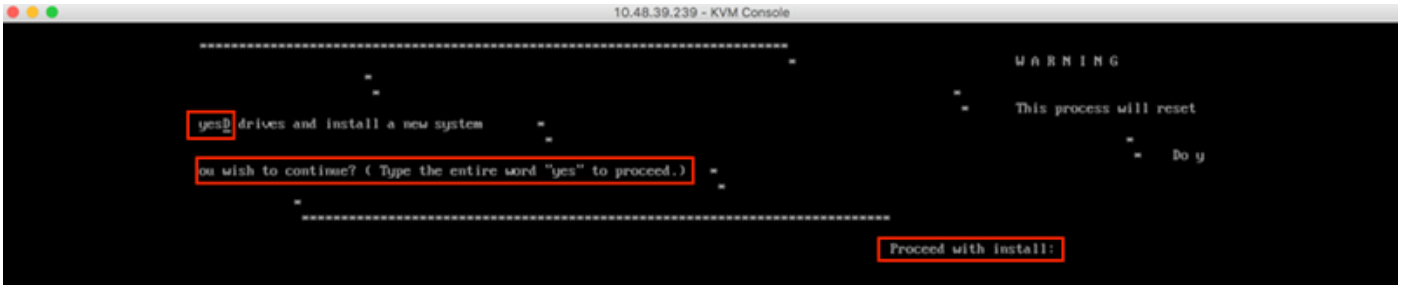
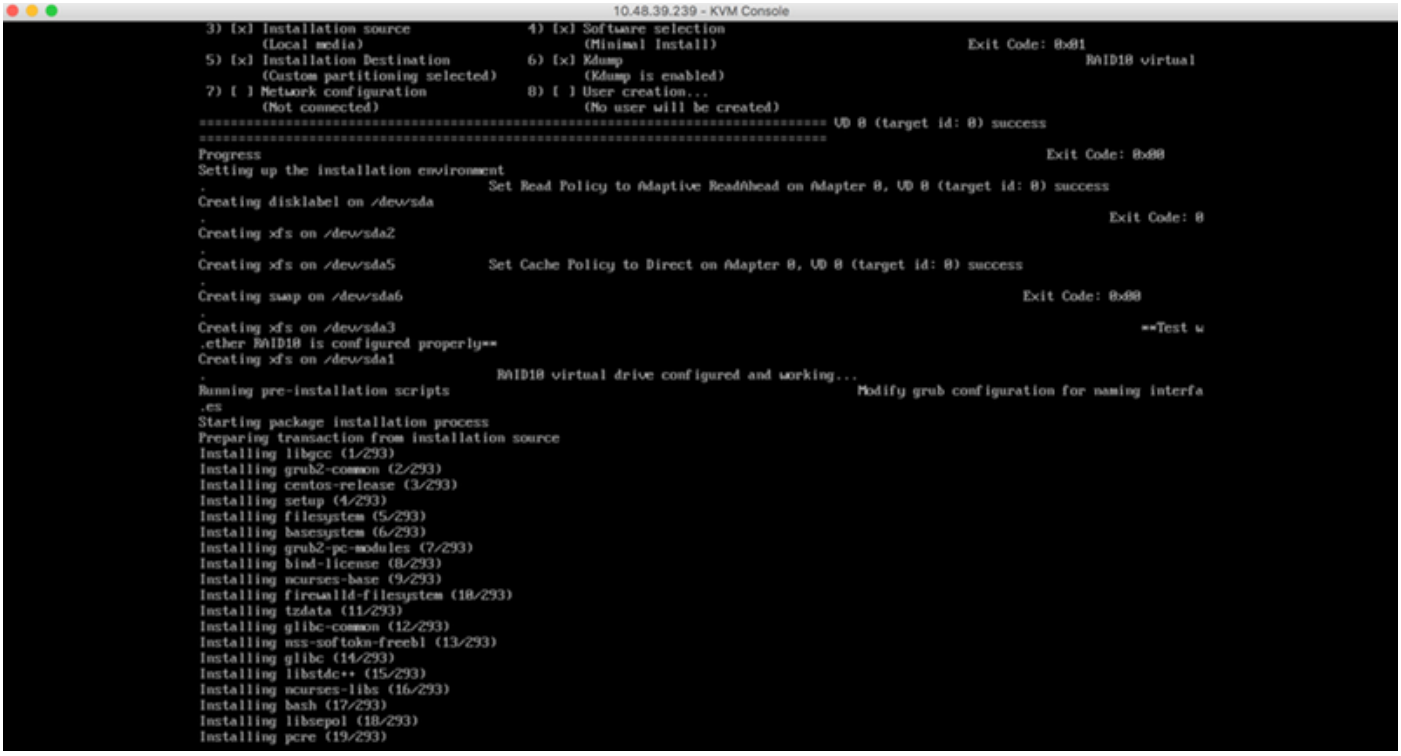
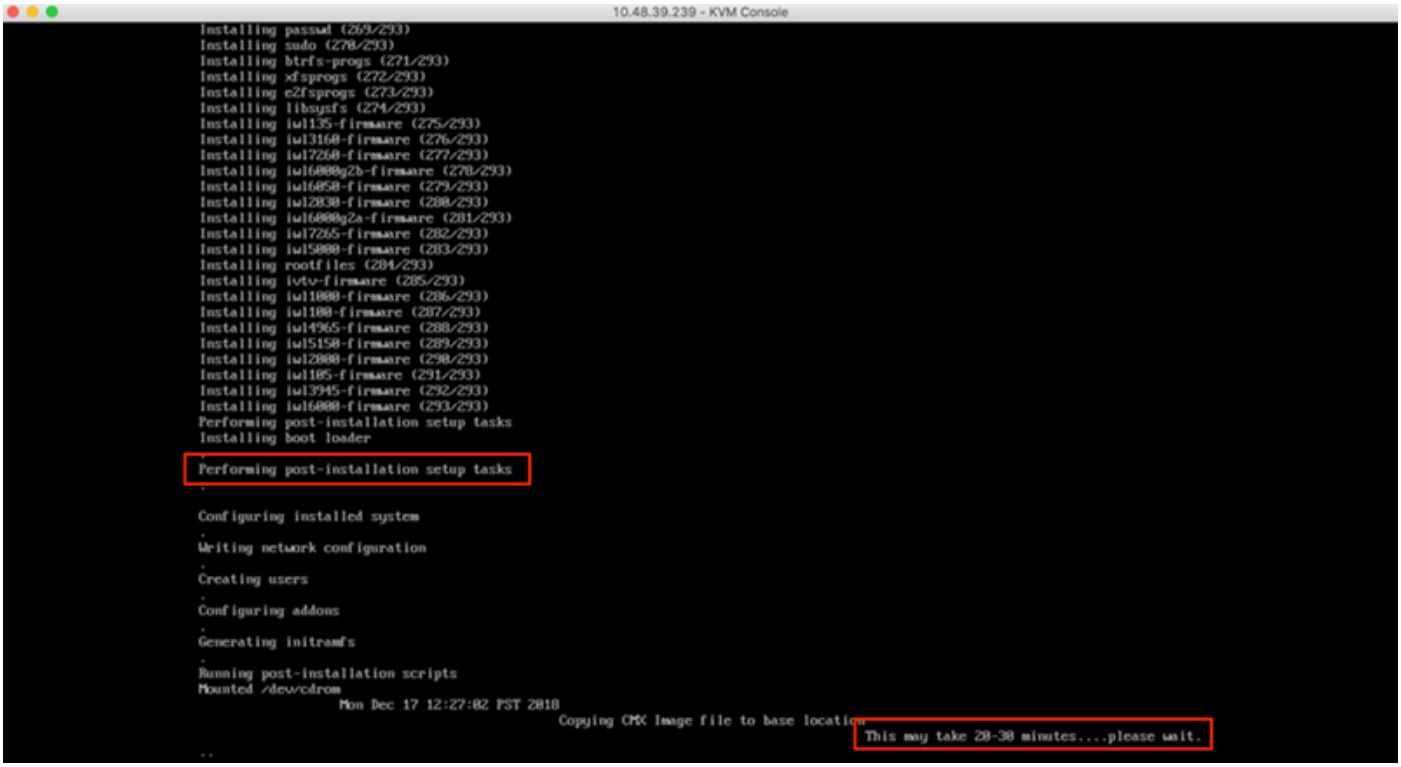


Figure 17. Once Enter is pressed, the installation will start



Step 3 During the installation, the prompt will show **Performing post-installation setup tasks**. This requires the user to press **Enter** in order to continue with the installation process that should take around 20-30 minutes:

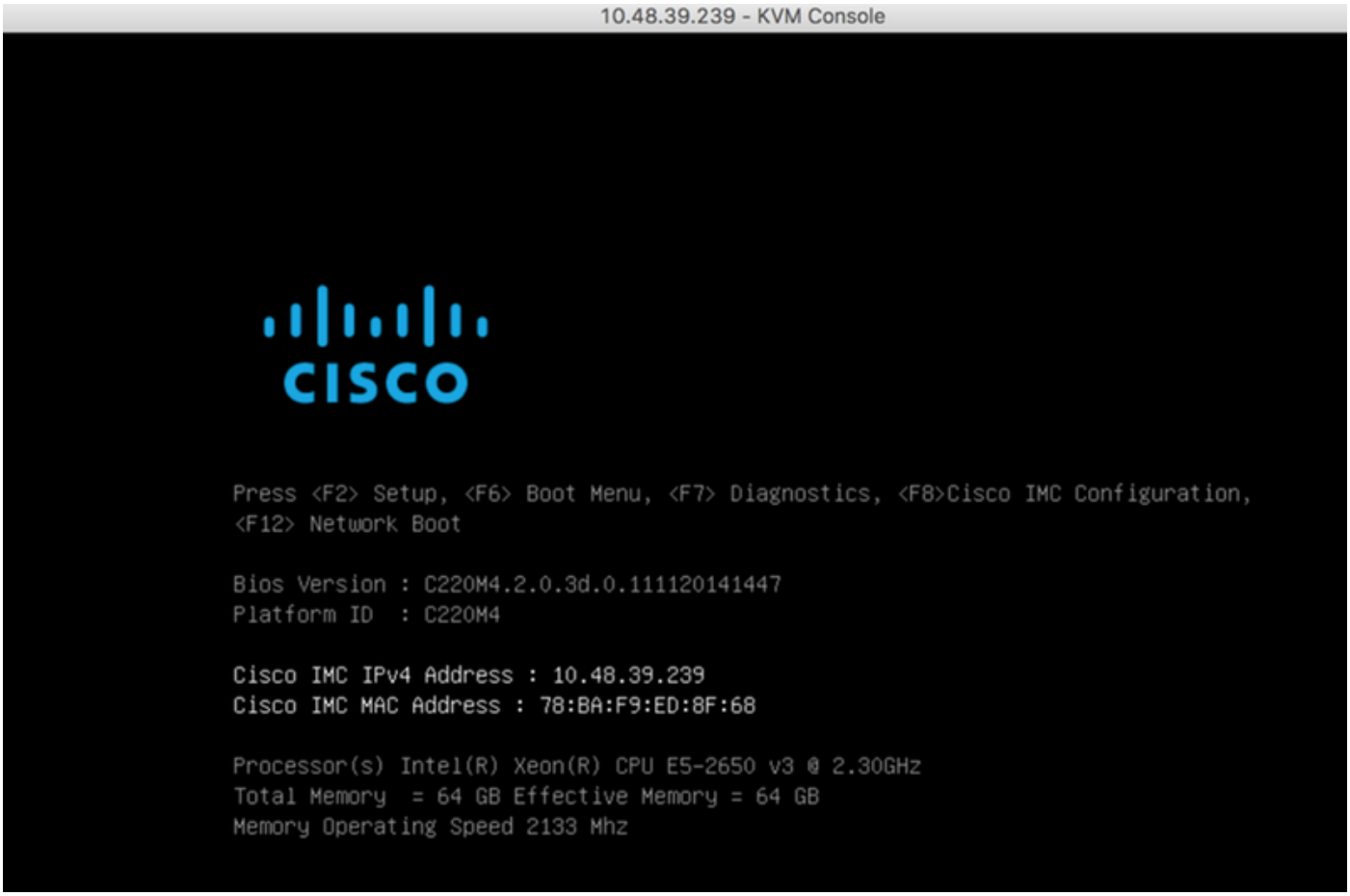
Figure 18. Prompt information



CMX initial setup

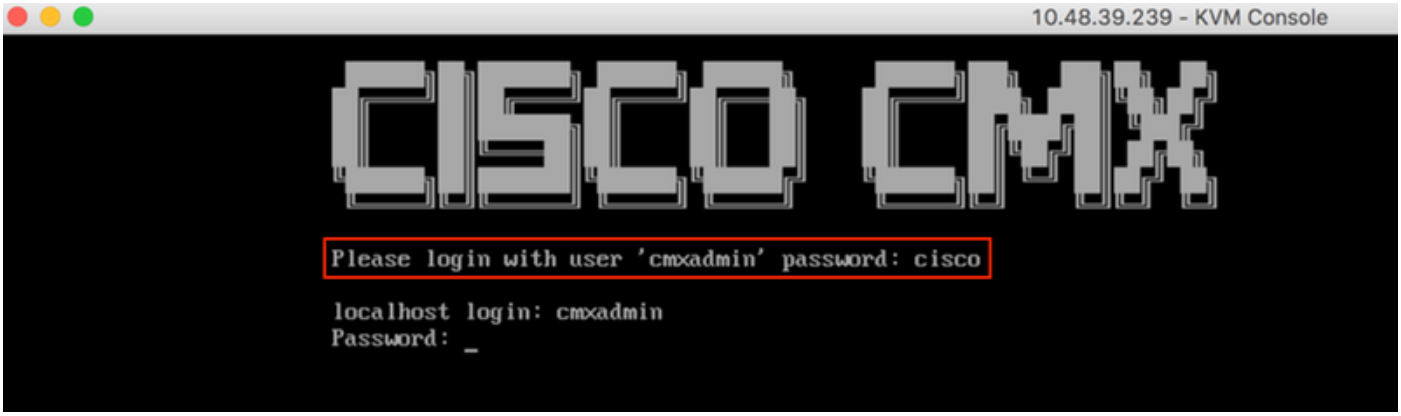
Step 1 After installation is complete, the machine is going to automatically reboot. This time, **do not press any key while booting**:

Figure 19. Boot process will continue without any user input



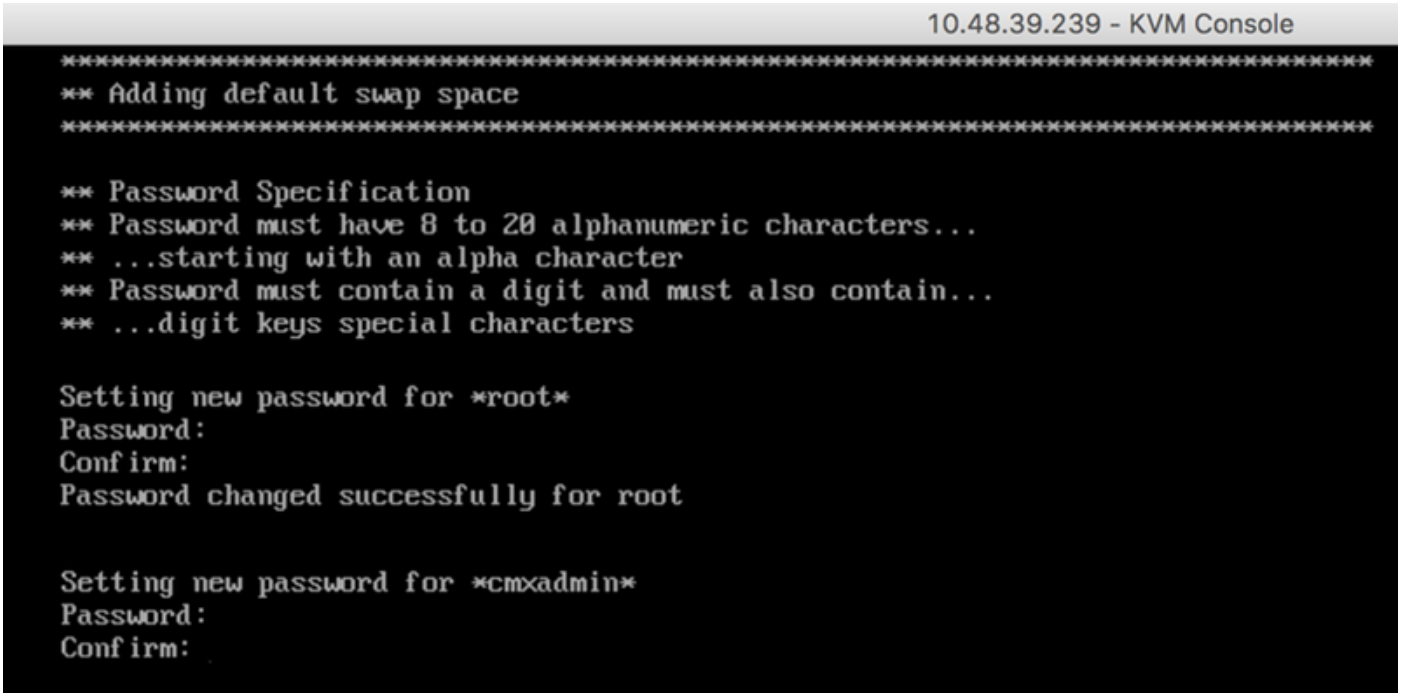
Step 2 Log into CMX using the default credentials (cmxadmin/cisco) as displayed on top:

Figure 20. Cisco CMX initial login



Step 3 You will be prompted to change password for root and cmxadmin users. Password specifications must be met:

Figure 21. Set Cisco CMX password



Step 4 Configure the network parameters. Gateway and DNS need to be reachable for network settings to be applied. In case they are not, you will be prompted to configure network parameters again. If they are reachable, keepalive services will be restarted. During this process, **DO NOT press Enter**!!!

Figure 22. Network configuration on initial setup

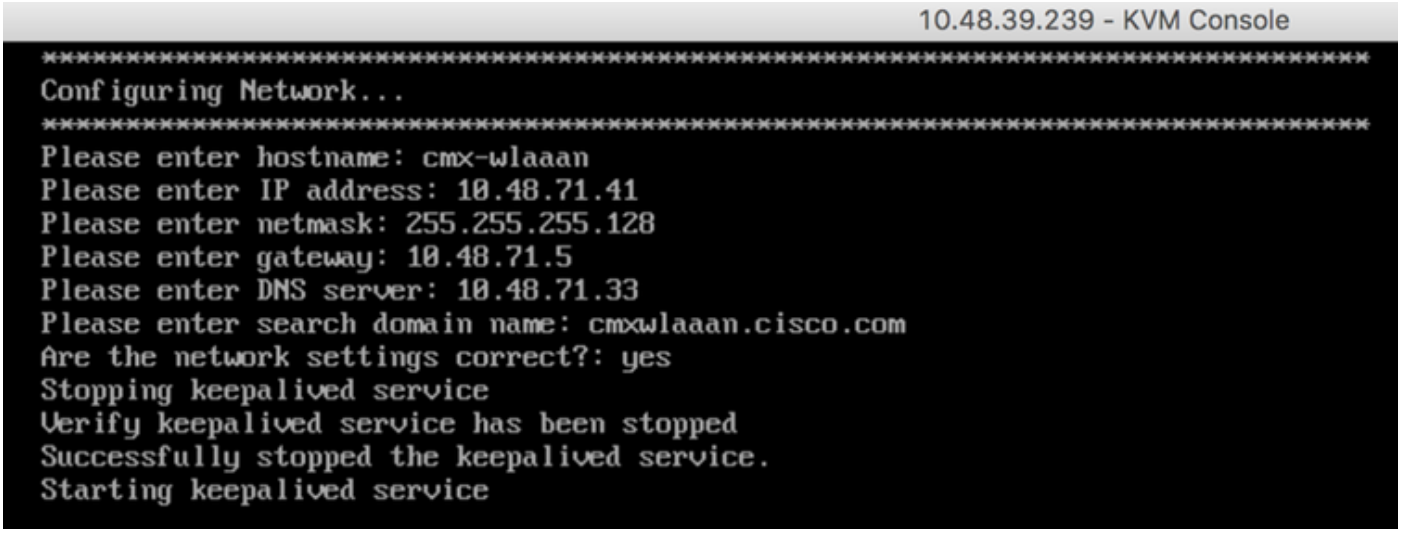
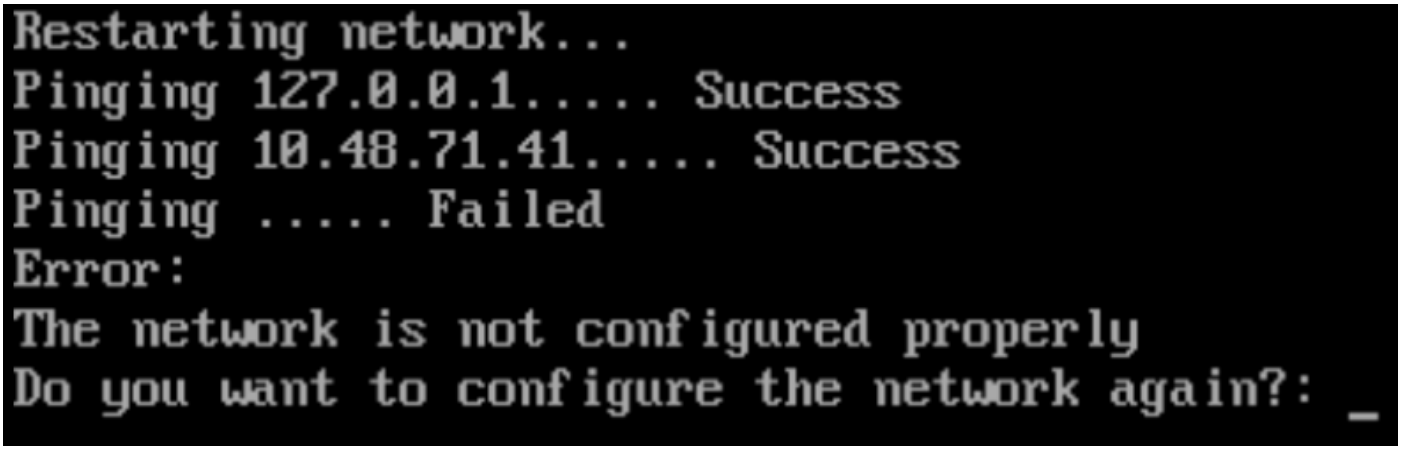


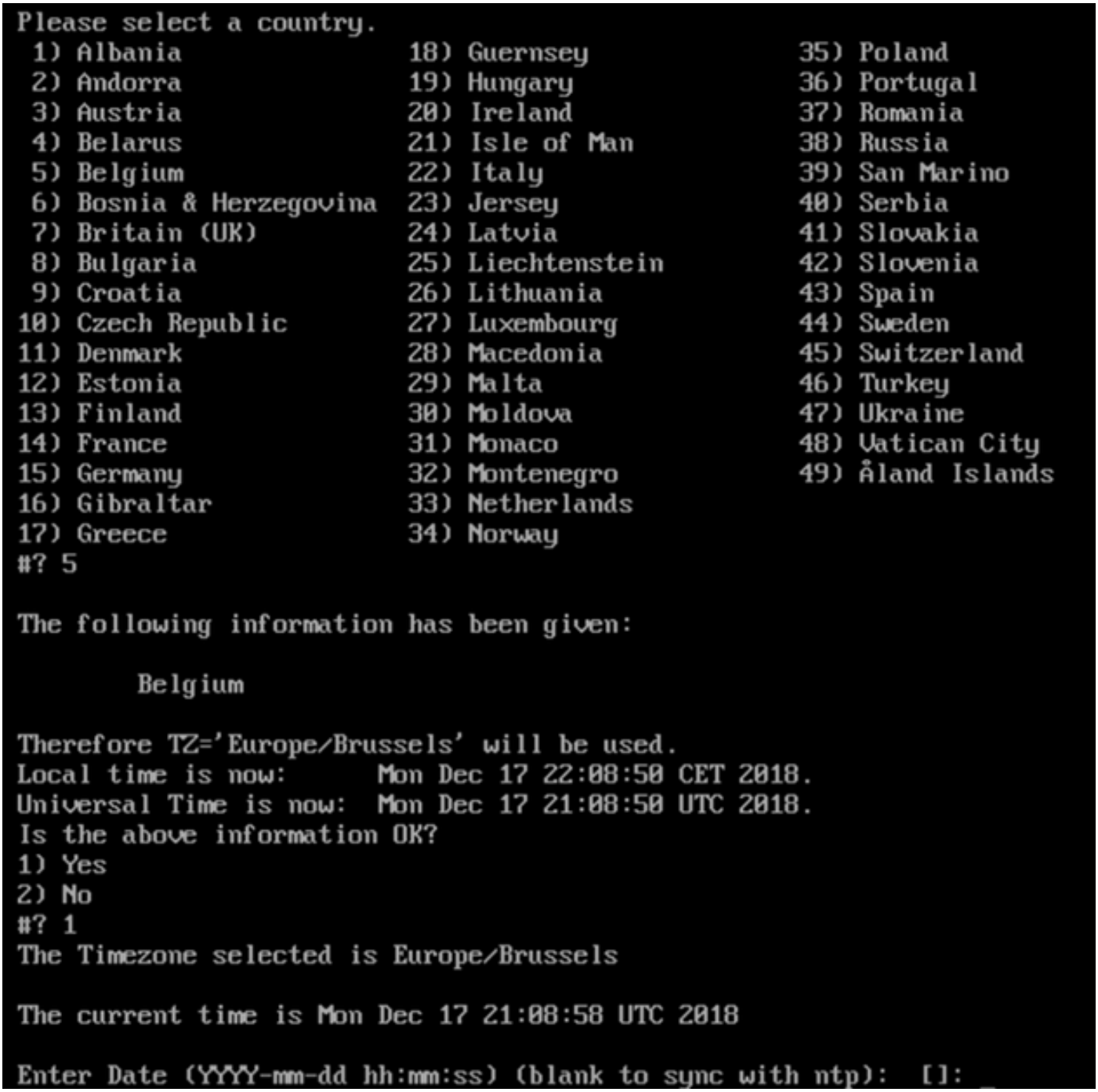
Figure 23. if gateway is unreachable, network configuration prompt will come up



Step 5 After keepalive services are restarted, the installation will prompt to enter NTP server IP address, region and country. In case the NTP is not used, the prompt will skip to Time zone and time/date configuration.

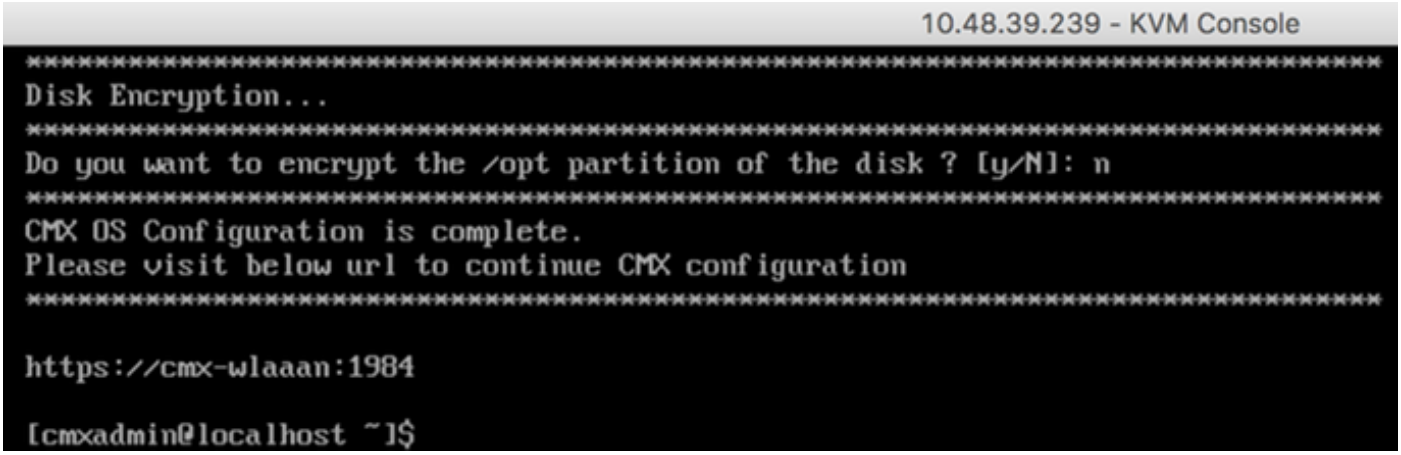
Figure 24. NTP and Time zone configuration

Figure 25. Country selection



Step 6 Next prompt will ask you to select the if you want disk encryption. CLI setup ends here and the remain the configuration will be done through CMX web interface (GUI).

Figure 26. Disk encryption setup

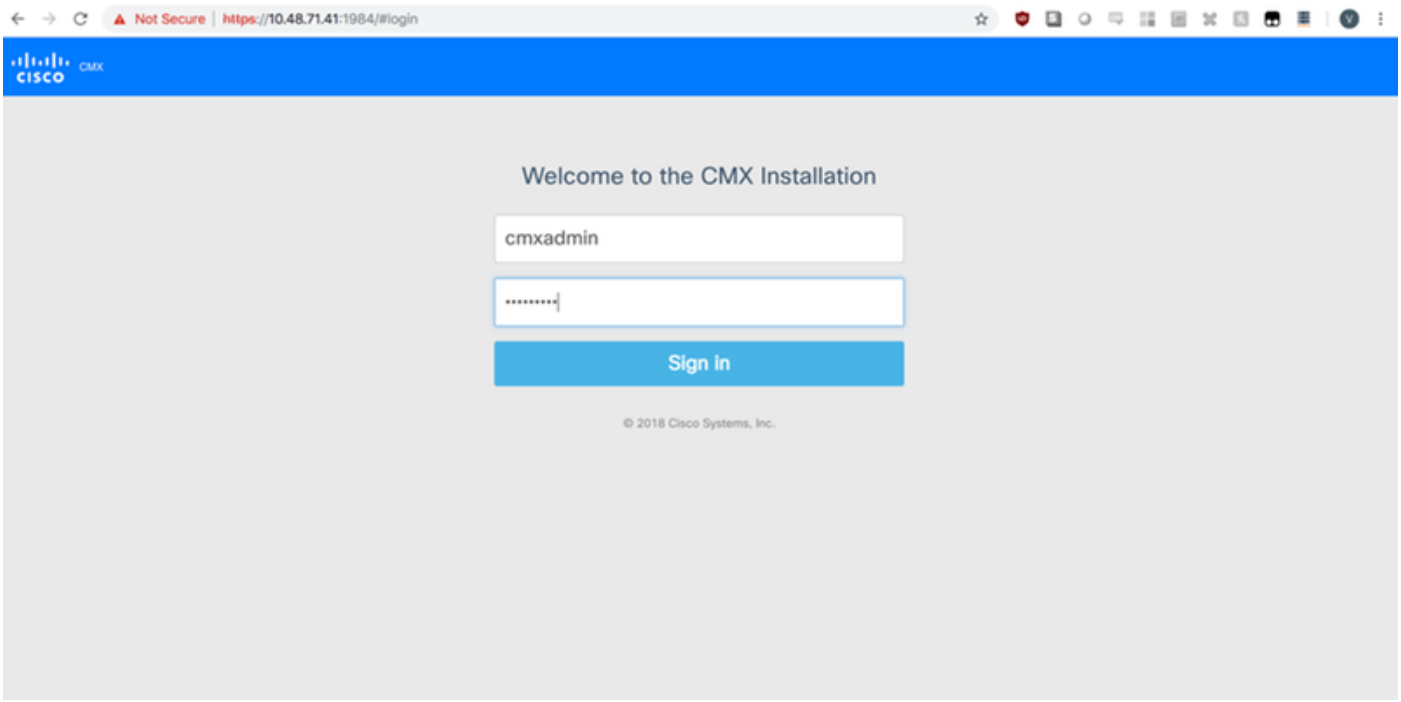


CMX node installation

Access the CMX GUI trough https://<cmx_ip_address> :1984. Port 1984 is only used during the initial setup or upgrade.

Step 1 Log in using *cmxadmin* user and the password that was previously configured.

Figure 27. CMX GUI node installation login



Step 2 Select the CMX node type (Location or Presence). Note that this cannot be changed afterwards. After selecting, wait for the configuration and startup to finish.

Figure 28. CMX GUI node selection

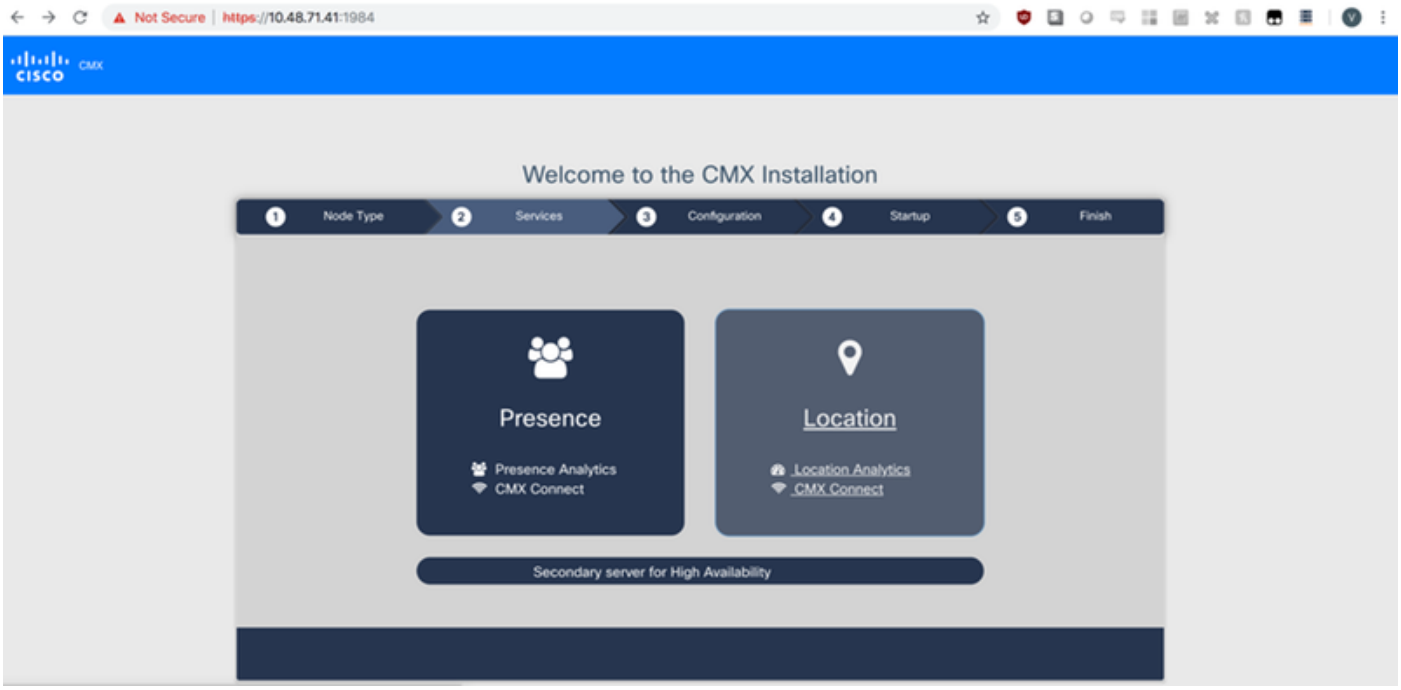


Figure 29. CMX configuration installation

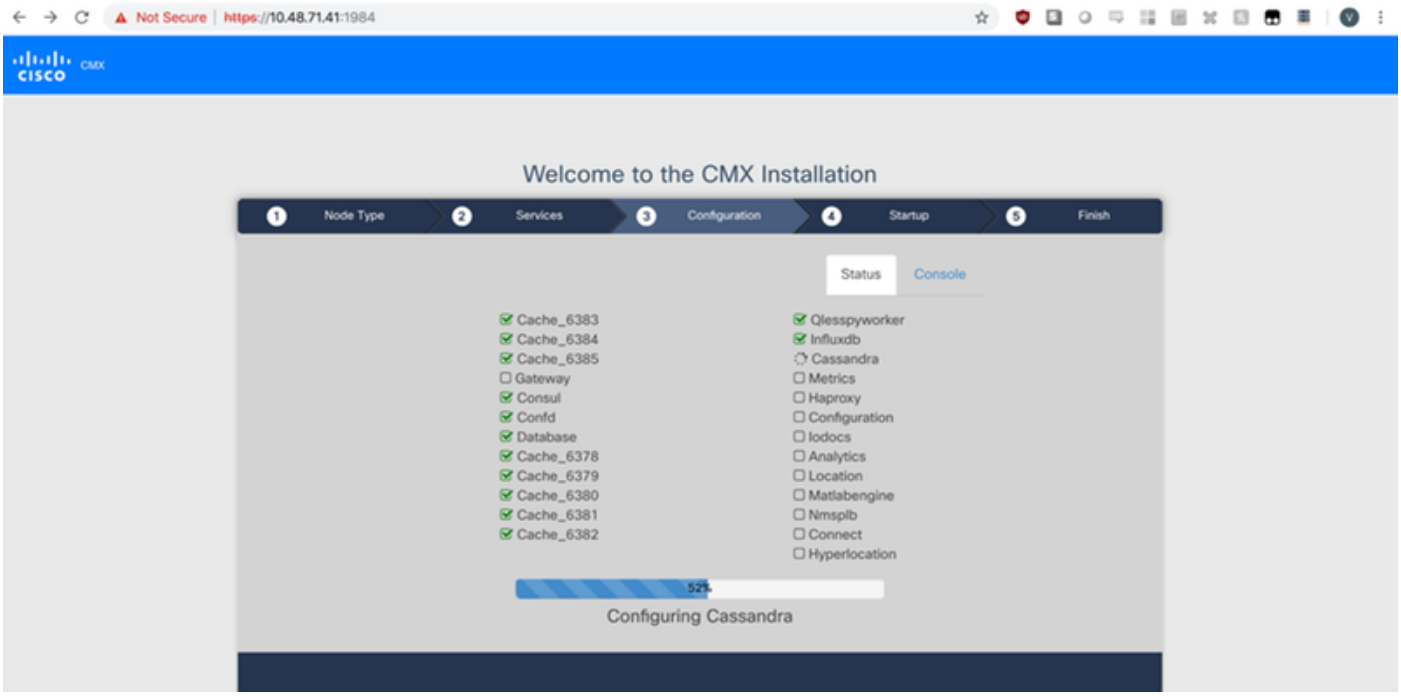
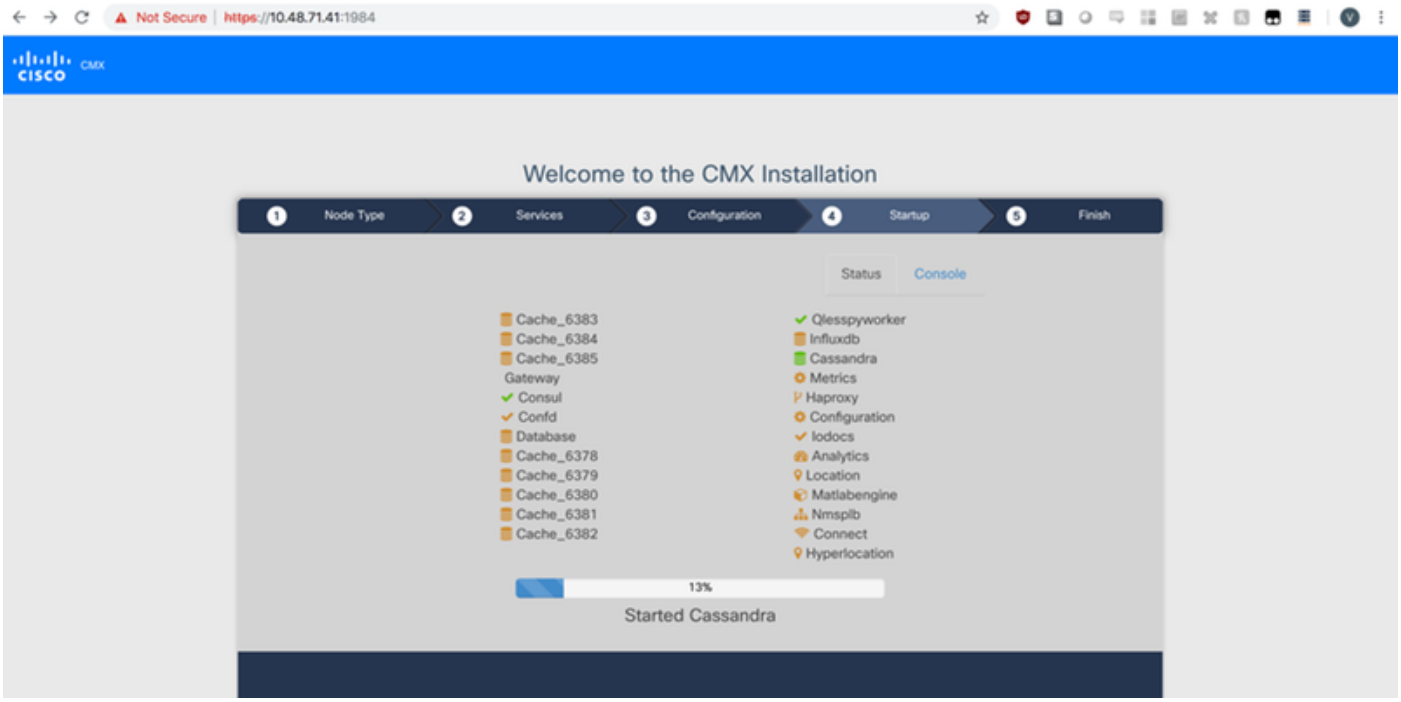


Figure 30. CMX starting services

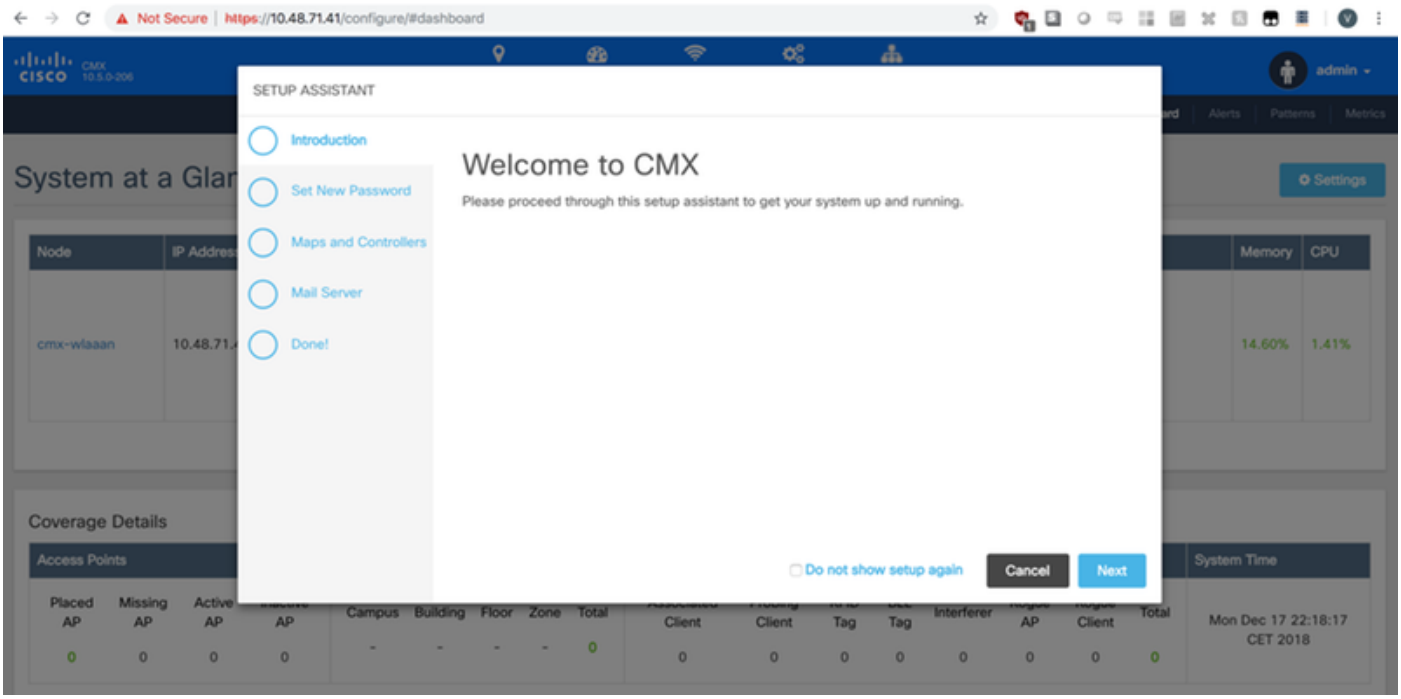


Step 3 Press **Please click to continue setup**

Figure 31. CMX installation completion

Installation process is now done. You are now redirected to the setup assistant to finish the node's specific configuration (maps import, pairing with wireless controller and mail server).

Figure 32. CMX basic setup assistant


Not Secure
https://10.48.71.41/configure/#dashboard
admin
SETUP ASSISTANT
Introduction
Set New Password
Maps and Controllers
Mail Server
Done!
Welcome to CMX
Please proceed through this setup assistant to get your system up and running.
Do not show setup again
Cancel
Next
System at a Glar
Settings
Node
Memory
CPU
cmx-wlaaan
14.60%
1.41%
Coverage Details
Access Points
System Time
Placed AP
Missing AP
Active AP
Campus
Building
Floor
Zone
Total
Client
Tag
Interferer
AP
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