

在 Cisco MSE 3375 上安装 CMX 10.5

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简介

本文档将指导网络管理员在Cisco 3375 MSE设备上安装Cisco CMX 10.5映像。此流程还包括有关如何设置安装所需的思科集成管理控制器(CIMC)的说明。

无法从CMX 10.2、10.3或10.4升级到10.5。需要全新安装。

"MD5cmx"

10.510.5.0-20610.5.1-26CMX Web""(System)->""(Settings)->""(Upgrade)

为了避免 [CSCvn64747](#) 安装10.5.1-26时，建议先安装10.5.0，然后升级到10.5.1-26

先决条件

要求

思科3375 MSE设备

Cisco CMX 10.5 ISO文件(从<https://software.cisco.com>下载)

使用的组件

本指南中使用的组件：

- 带CIMC版本4.0(1a)的Cisco 3375
- 思科互联移动体验版本10.5.1-27
- 运行MacOS Mojave和Google Chrome作为Web浏览器的MacBook

安装

CIMC配置和KVM启动

第 1 步 将显示器插入VGA端口，将键盘插入设备背面的USB端口。打开计算机电源。按 F8 在引导屏幕中输入CIMC配置实用程序：



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Press <F2> BIOS Setup : <F6> Boot Menu : <F7> Diagnostics

Press <F8> CIMC Setup : <F12> Network Boot

Bios Version : C220M5.4.0.1c.0.0627180916

Platform ID : C220M5

Processor(s) Intel(R) Xeon(R) Gold 5118 CPU @ 2.30GHz

Total Memory = 64 GB Effective Memory = 64 GB

Memory Operating Speed 2400 Mhz

M.2 SWRAID configuration is not detected. Switching to AHCI mode.

Cisco IMC IPv4 Address : 10.48.71.11

Cisco IMC MAC Address : 70:6D:15:96:38:78

Entering CIMC Configuration Utility ...

图1.启动屏幕

步骤 2 配置CIMC参数，按 F10 保存并等待45秒以应用更改。按 F5 刷新并验证设置已应用。单击 ESC 退出。

```
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:
  Riser1:       [ ]                   Active-active:  [ ]
  Riser2:       [ ]                   VLAN (Advanced)
  MLom:         [ ]                   VLAN enabled:   [ ]
Shared LOM Ext: [ ]                   VLAN ID:        1
                                           Priority:        0
IP (Basic)
IPV4:           [X]                   IPV6:           [ ]
DHCP enabled    [ ]
CIMC IP:        10.48.71.11
Prefix/Subnet:  255.255.255.128
Gateway:        10.48.71.1
Pref DNS Server: 0.0.0.0
Smart Access USB
Enabled         [ ]
*****
<Up/Down>Selection  <F10>Save  <Space>Enable/Disable  <F5>Refresh  <ESC>Exit
<F1>Additional settings
```

图2.思科IMC配置实用程序

要从网络访问CIMC，请通过设备背面的管理端口将MSE 3375连接到交换机：

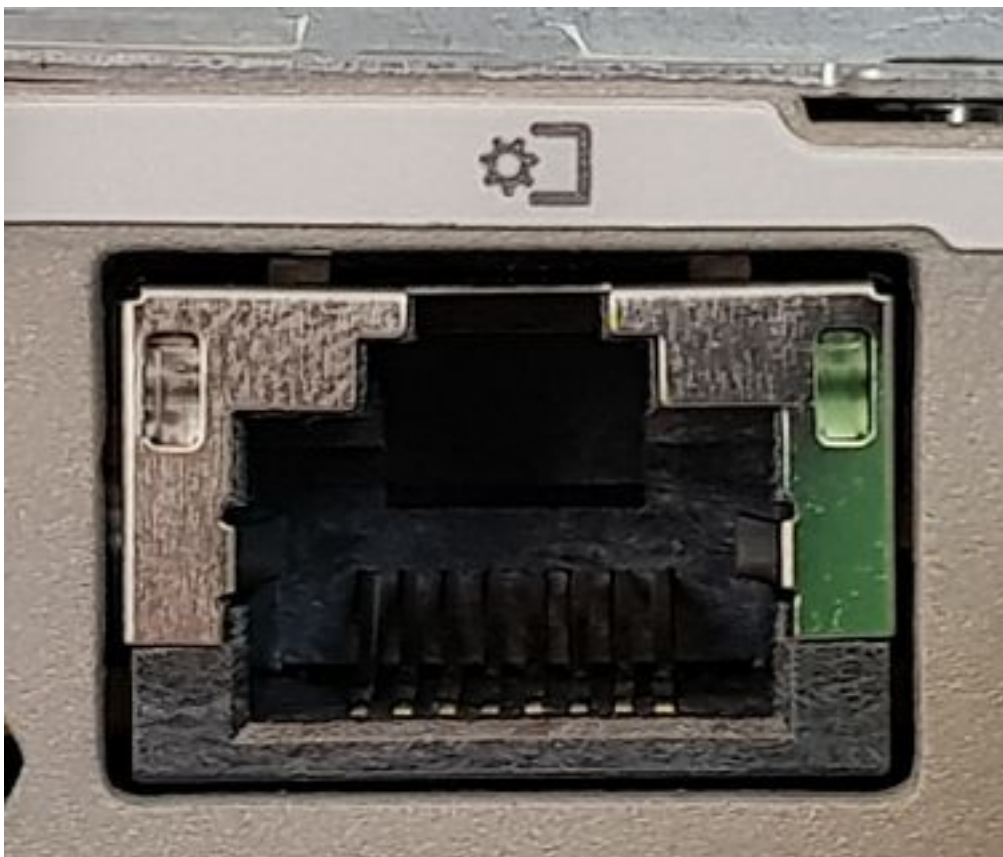


图3.管理端口

步骤 3 在Chrome Web浏览器中，转到 http://<cimc_ip_address>。首次登录时，默认用户名为 *admin*。默认密码为 *password*。如果您运行的是CIMC 4.0(1a)版本，则登录屏幕将如下所示：

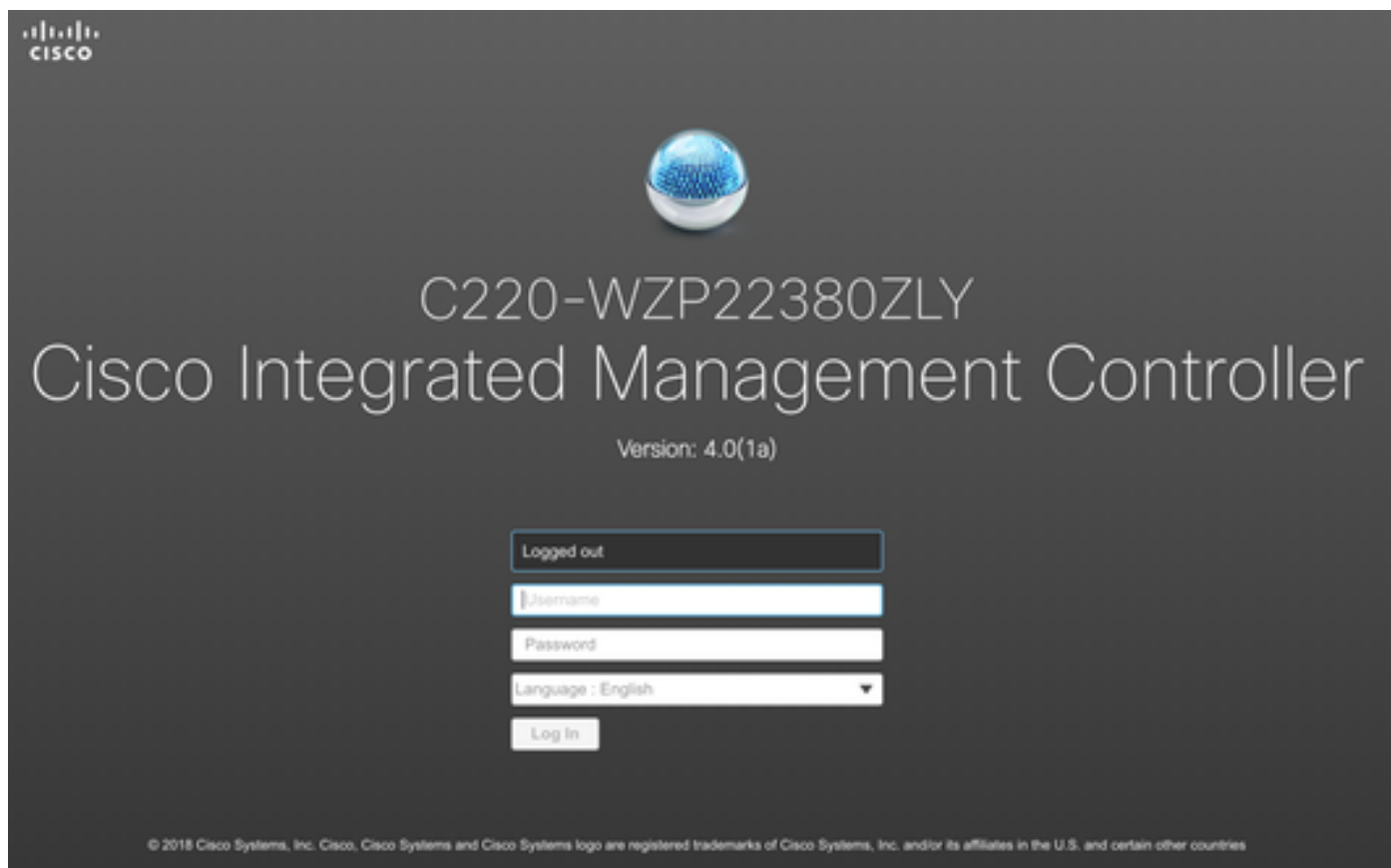


图4. CIMC登录屏幕

第4步登录后，按右上角的“启动KVM控制台”。CIMC v4支持HTML和基于Java的KVM。运行基于Java的KVM需要Java版本1.6.0_14或更高版本。本教程将使用HTML文档。



图5.启动KVM控制台

如果浏览器中的弹出窗口被阻止，请确保按链接转发：

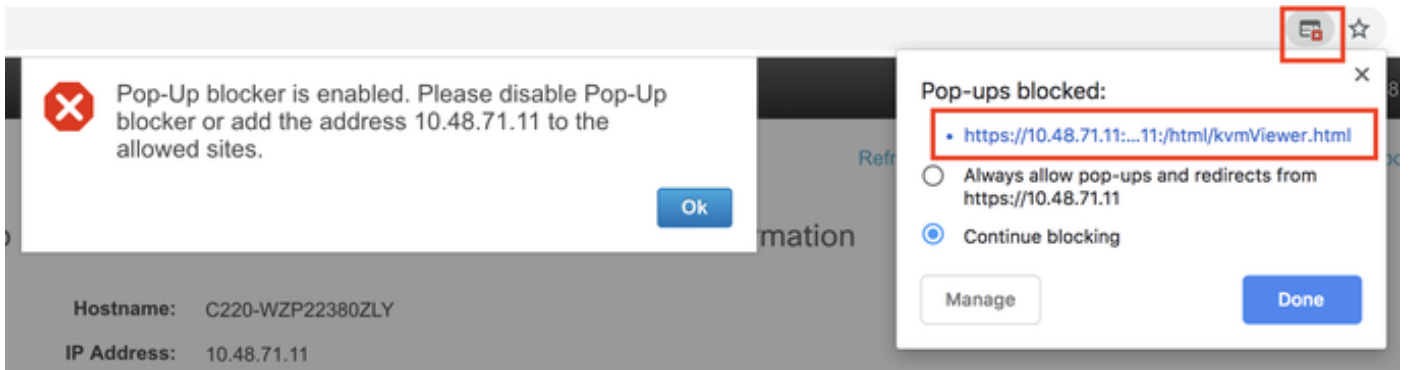


图6.阻止弹出窗口

第5步启动KVM后，按Virtual Media(虚拟媒体)并激活虚拟设备。激活虚拟设备后，下拉菜单将展开，并显示其他选项。按MAP CD/DVD以映射CMX 10.5 ISO文件：

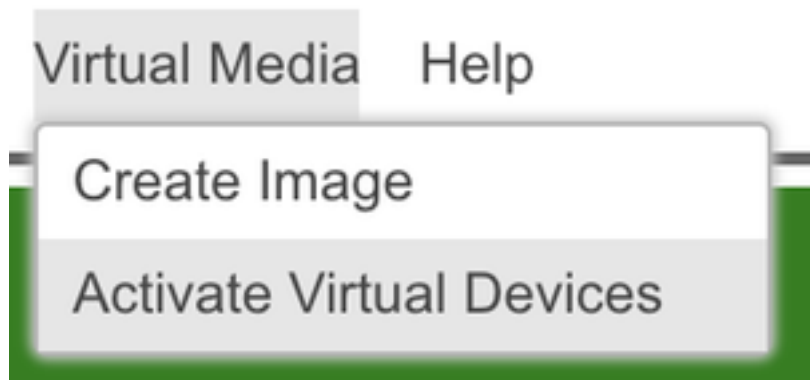


图7.激活虚拟设备

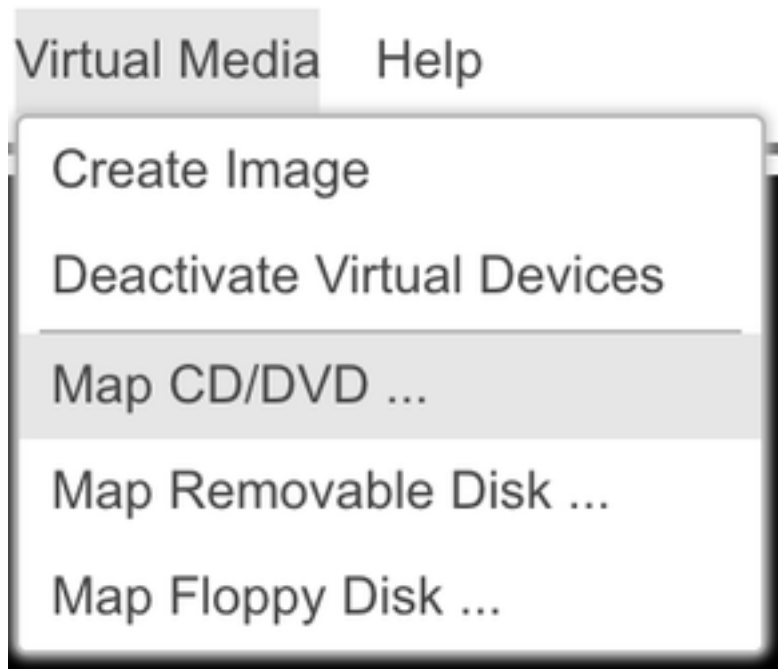


图8.映射CD/DVD

第6步导航到并选择下载的CMX映像，然后按映射驱动器。按下后，“虚拟媒体”菜单将再次展开，以显示映射的映像：

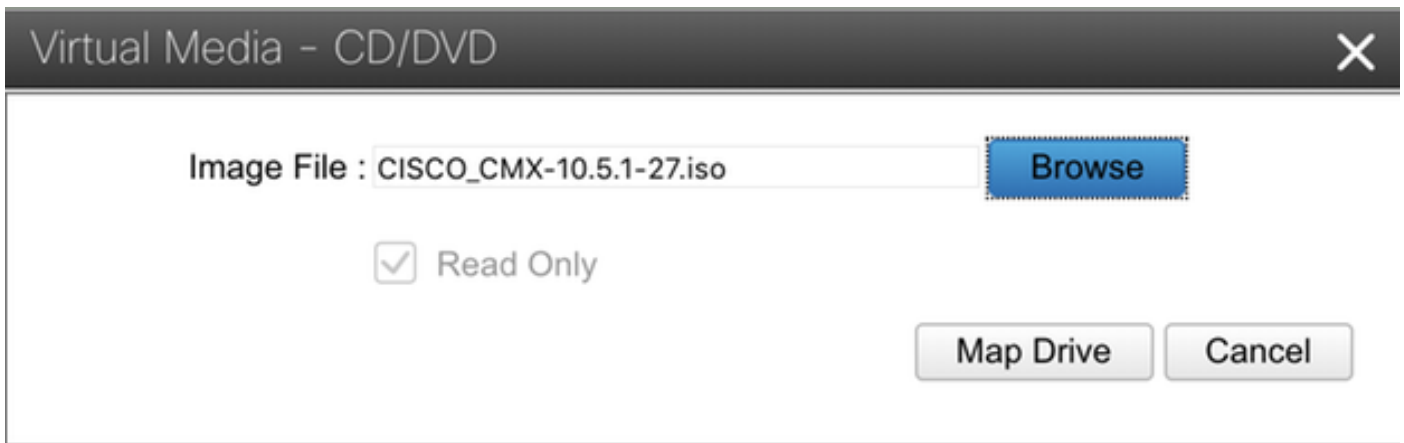


图9.映射驱动器



图10.映射的CMX映像

第7步检查映像是否正确连接后，转至“电源”选项卡，并选择重置系统（热启动）以重置设备。在启动过程中，按F7开始安装映射的映像：

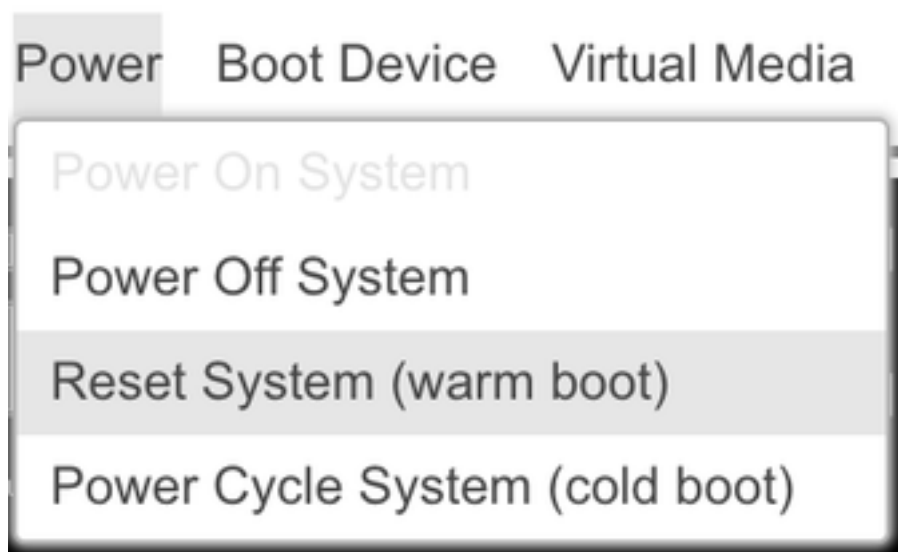


图11.重新启动设备



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Press <F2> BIOS Setup : <F6> Boot Menu : <F7> Diagnostics
Press <F8> CIMC Setup : <F12> Network Boot
Bios Version : C220M5.4.0.1c.0.0627180916
Platform ID : C220M5

Processor(s) Intel(R) Xeon(R) Gold 5118 CPU @ 2.30GHz
Total Memory = 64 GB Effective Memory = 64 GB
Memory Operating Speed 2400 Mhz
M.2 SWRAID configuration is not detected. Switching to AHCI mode.

Cisco IMC IPv4 Address : 10.48.71.11
Cisco IMC MAC Address : 70:6D:15:96:38:78

Diagnostics requested. System looks for SDU bootable in Flex Util/Virtual Media

图12. CIMC启动选择菜单

CMX映像安装

第 1 步 选择 使用当前控制台安装CMX 继续安装。选择后，安装脚本将开始加载：

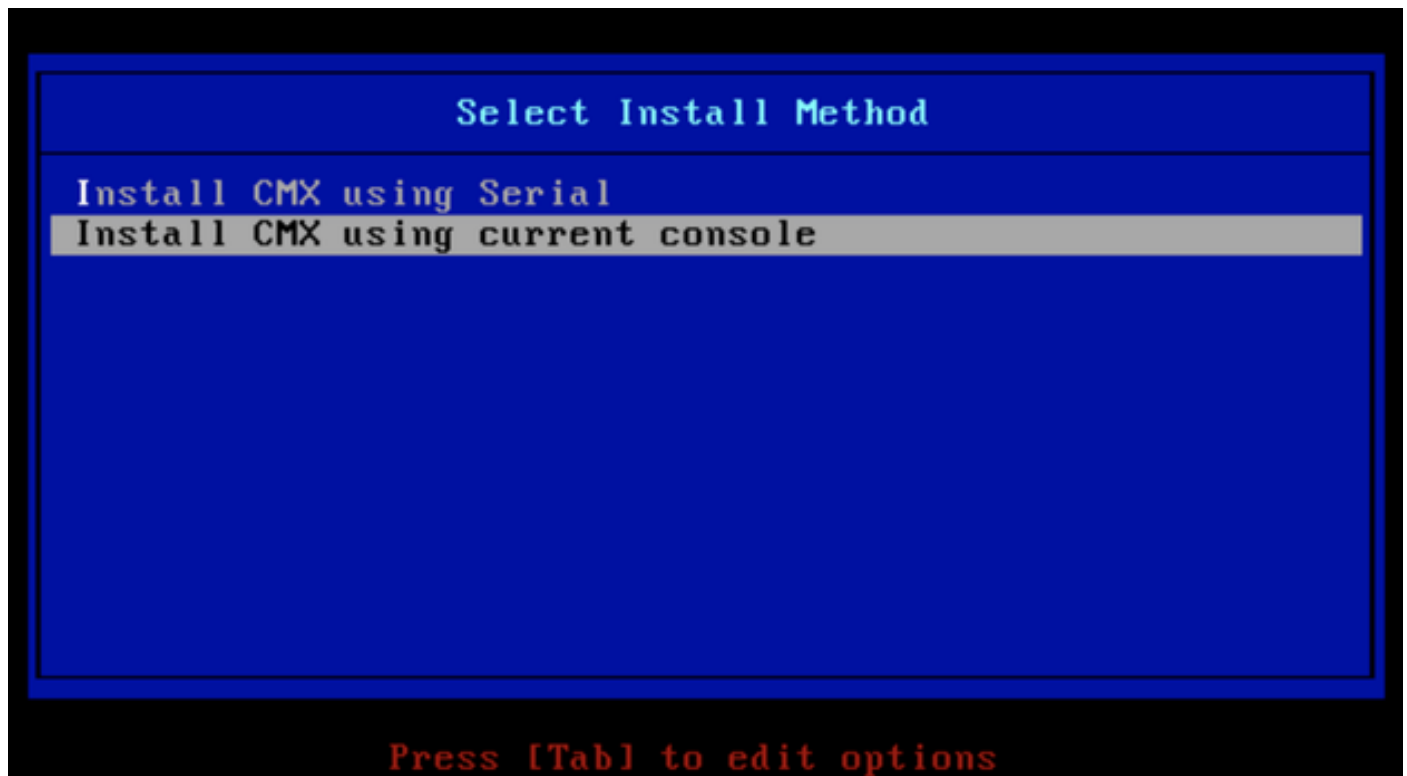


图13. 继续安装当前KVM


```

*Disable PD Fail history so no manual intervention required in rebuilding dropped volume**
*****Changes drive in state Unconfigured-
Installation          **Ignore errors in case drives are already good**
1) [x] Language settings          2) [x] Time settings          RAID10 virtual drive sucessfully created
   (English (United States))      (America/Los_Angeles timezone) Now configur
3) [x] Installation source       4) [x] Software selection
   (Local media)                  (Minimal Install)operly**
5) [x] Installation Destination  6) [x] Kdump                  RAID10 virtual drive configured and working...
   (Custom partitioning selected) (Kdump is enabled)
7) [ ] Network configuration     8) [ ] User creation          Modify g
   (Not connected)               (No user will be created)
*****
Progress
Setting up the installation environment
.
Creating disklabel on /dev/sda
.
Creating xfs on /dev/sda2
.
Creating xfs on /dev/sda5
.
Creating swap on /dev/sda6
.
Creating xfs on /dev/sda3
.
Creating xfs on /dev/sda1
.
Running pre-installation scripts
.
Starting package installation process
Preparing transaction from installation source
Installing libgcc (1/293)
Installing grub2-common (2/293)
Installing centos-release (3/293)
Installing setup (4/293)
Installing filesystem (5/293)
Installing basesystem (6/293)
Installing grub2-pc-modules (7/293)
Installing bind-license (8/293)
Installing ncurses-base (9/293)
Installing firewalld-filessystem (10/293)
Installing tzdata (11/293)
Installing glibc-common (12/293)

```

图16.按下Enter键后，安装将开始

第3步CMX安装过程大约需要20-30分钟：

```

Running post-installation scripts
Mounted /dev/cdrom
Sun Jan 28 14:11:26 PST 2019
Copying CMX Image file to base location
This may take 20-30 minutes...please wait.
..

```

图17.安装需要20-30分钟

CMX初始设置

第1步安装完成后，计算机将自动重新启动。这次，启动时不要按任何键。

第2步使用顶部显示的默认凭证(cmxadmin/cisco)登录CMX:



图18.首次登录

第3步系统将提示您更改根用户和cmxadmin用户的密码。必须满足密码规范：

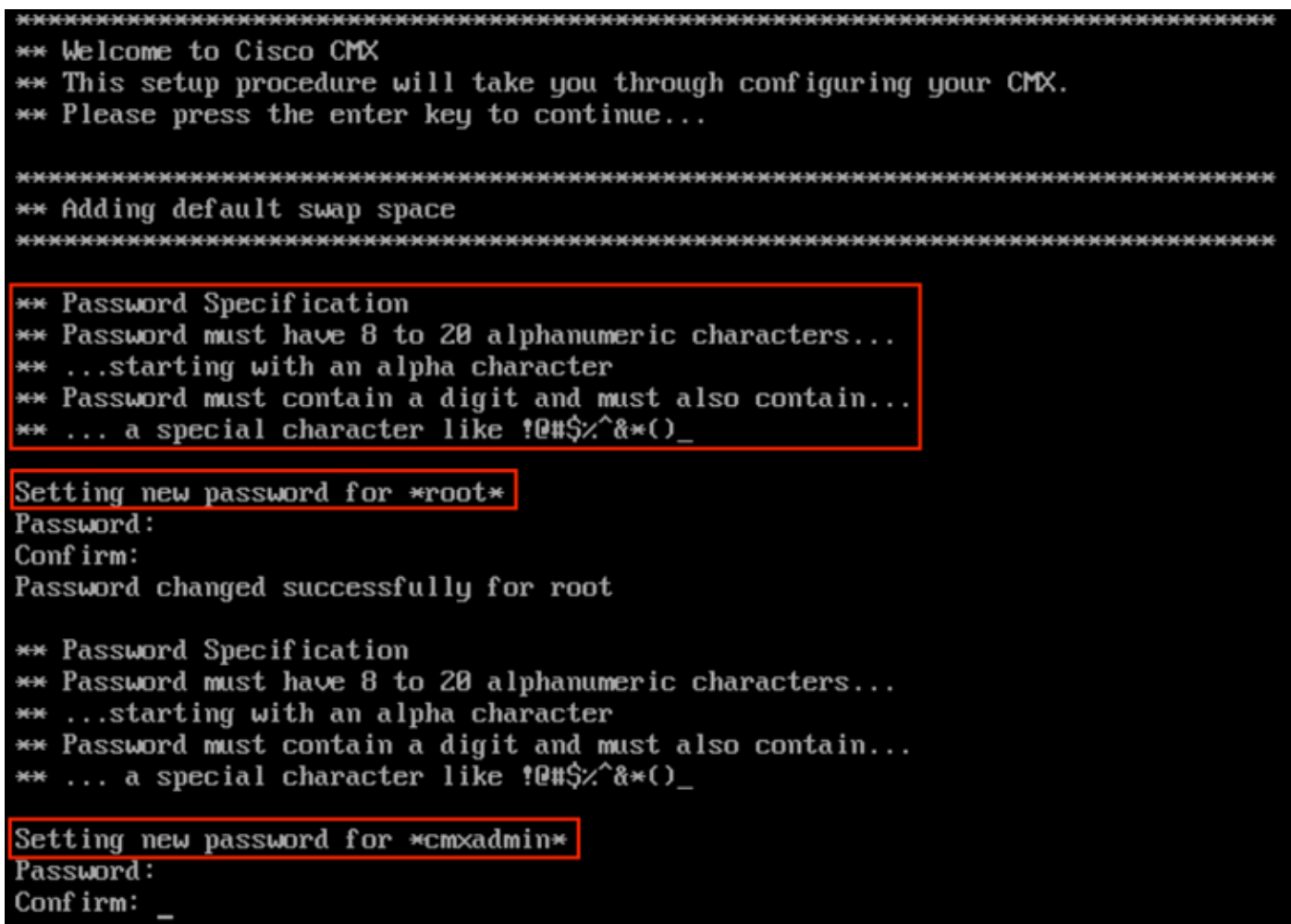


图19.更改根和cmxadmin密码

第4步配置网络参数。要应用网络设置，需要可访问网关和DNS。如果它们不可用，系统将提示您再次配置网络参数。如果它们可访问，则会重新启动保持连接服务。在此过程中，请勿按Enter!

```
Please enter hostname: mse-3375-1
Please enter IP address: 10.48.39.240
Please enter netmask: 255.255.255.0
Please enter gateway: 10.48.39.5
Please enter DNS server: 10.48.39.5
Please enter search domain name: mse33751
Are the network settings correct?: yes
Stopping keepalived service
Verify keepalived service has been stopped
Successfully stopped the keepalived service.
Starting keepalived service
```

图20.网络参数设置

```
Restarting network...
Pinging 127.0.0.1..... Success
Pinging 10.48.71.63..... Success
Pinging 10.48.71.5..... Failed
Error: PING 10.48.71.5 (10.48.71.5) 56(84) bytes of data.
From 10.48.71.63 icmp_seq=1 Destination Host Unreachable
From 10.48.71.63 icmp_seq=2 Destination Host Unreachable
From 10.48.71.63 icmp_seq=3 Destination Host Unreachable
From 10.48.71.63 icmp_seq=4 Destination Host Unreachable

--- 10.48.71.5 ping statistics ---
4 packets transmitted, 0 received, +4 errors, 100% packet loss, time 3004ms
pipe 3

The network is not configured properly
Do you want to configure the network again?: yes
```

图21.如果网关无法访问，网络配置提示将出现

第5步重新启动保活服务后，安装将提示输入NTP服务器IP地址、区域和国家/地区。如果未使用NTP，提示符将跳至时区和时间/日期配置：

```
Restarting network...
Pinging 127.0.0.1.... Success
Pinging 10.48.39.240.... Success
Pinging 10.48.39.5.... Success
Network configuration completed successfully
*****
Checking if the machine meets required specification...
*****
+-----+-----+-----+-----+
| Check | Minimum Required | Actual | Result |
+-----+-----+-----+-----+
| Memory | 24GB | 63GB | ■ |
+-----+-----+-----+-----+
| CPU | 8 | 24 | ■ |
+-----+-----+-----+-----+
| Disk | 150GB | 1882GB | ■ |
+-----+-----+-----+-----+
| hostname | RFC Compliant Hostname | mse-3375-1 | ■ |
+-----+-----+-----+-----+
*****
Configuring NTP Server...
*****
Please enter the NTP server name (blank for no NTP server) []: _
```

图22. NTP配置

```
*****
Configuring Timezone and date...
*****
Please identify a location so that time zone rules can be set correctly.
Please select a continent or ocean.
 1) Africa
 2) Americas
 3) Antarctica
 4) Arctic Ocean
 5) Asia
 6) Atlantic Ocean
 7) Australia
 8) Europe
 9) Indian Ocean
10) Pacific Ocean
11) none - I want to specify the time zone using the Posix TZ format.
#? 8
Please select a country.
 1) Albania          18) Guernsey        35) Poland
 2) Andorra          19) Hungary         36) Portugal
 3) Austria          20) Ireland        37) Romania
 4) Belarus          21) Isle of Man    38) Russia
 5) Belgium          22) Italy           39) San Marino
 6) Bosnia & Herzegovina 23) Jersey         40) Serbia
 7) Britain (UK)     24) Latvia         41) Slovakia
 8) Bulgaria         25) Liechtenstein  42) Slovenia
 9) Croatia          26) Lithuania      43) Spain
10) Czech Republic  27) Luxembourg     44) Sweden
11) Denmark          28) Macedonia      45) Switzerland
12) Estonia          29) Malta           46) Turkey
13) Finland          30) Moldova         47) Ukraine
14) France           31) Monaco          48) Vatican City
15) Germany          32) Montenegro     49) Åland Islands
16) Gibraltar        33) Netherlands
17) Greece           34) Norway
#? 5
```

图23.时区和日期配置

第6步系统将提示您确认输入的信息。如果选择“否”，系统将返回NTP配置提示：

```
The following information has been given:

      Belgium

Therefore TZ='Europe/Brussels' will be used.
Local time is now:      Mon Jan 21 08:11:16 CET 2019.
Universal Time is now: Sun Jan 20 23:11:16 UTC 2019.
Is the above information OK?
1) Yes
2) No
#?
```

图24. NTP配置

步骤 6 下一个提示将要求您选择是否要进行磁盘加密。KVM设置在此结束，其余配置将通过CMX Web界面(GUI)完成：

磁盘加密是GDPR合规性的要求之一。有关CMX GDPR合规性的完整信息可在此[链接上找到](#)。

```
*****
Disk Encryption...
*****
Do you want to encrypt the /opt partition of the disk ? [y/N]: n
*****
CMX OS Configuration is complete.
Please visit below url to continue CMX configuration
*****

https://cmx-wlaaan:1984

[cmxadmin@localhost ~]$
```

图25.磁盘加密提示

加密后，驱动器无法解密。

CMX节点安装

第1步通过https://<cmx_ip_address>:1984访问CMX GUI。端口1984仅在初始设置或升级期间使用。使用cmxadminuser和之前配置的密码登录：

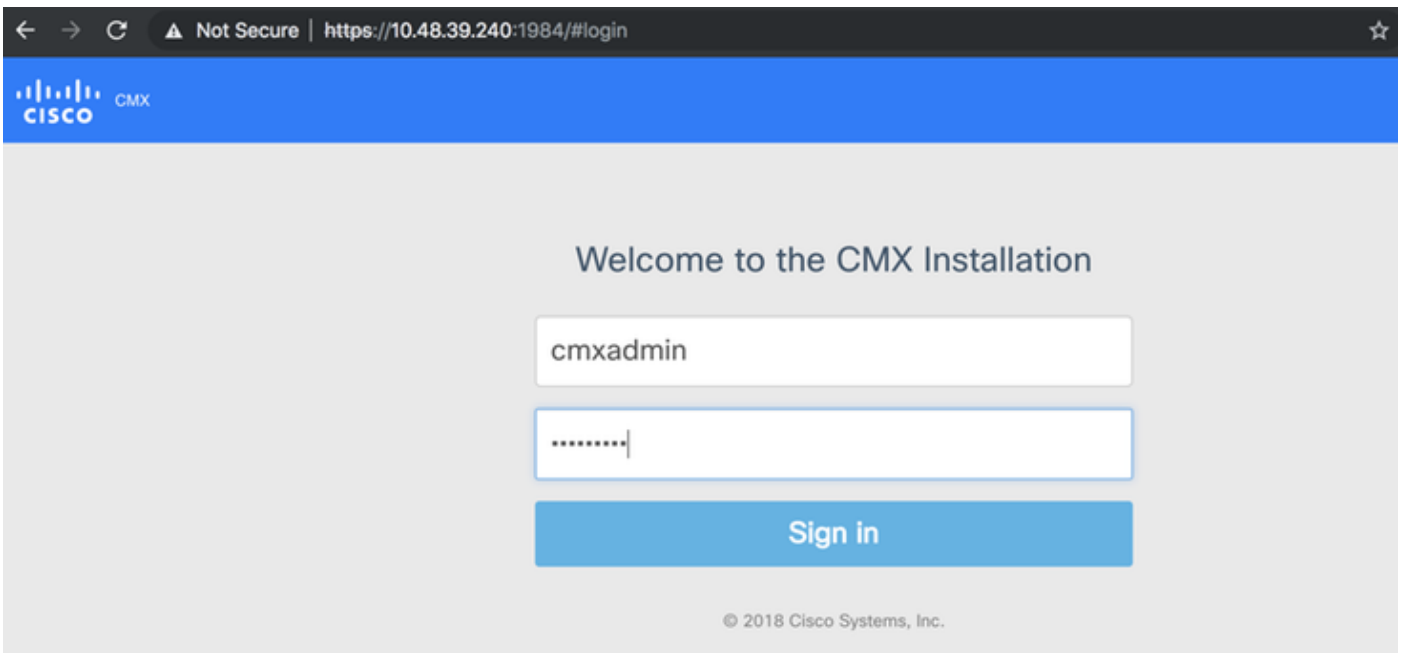


图26. CMX GUI节点安装登录

第2步选择CMX节点类型 (Location或Presence)。 请注意，以后无法更改。选择后，等待配置和启动完成：

Welcome to the CMX Installation

1

Node Type

2

Services

3

Configuration

4

Startup

5

Finish



Presence

 Presence Analytics
 CMX Connect



Location

 Location Analytics
 CMX Connect

Secondary server for High Availability

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图27. CMX节点类型选择

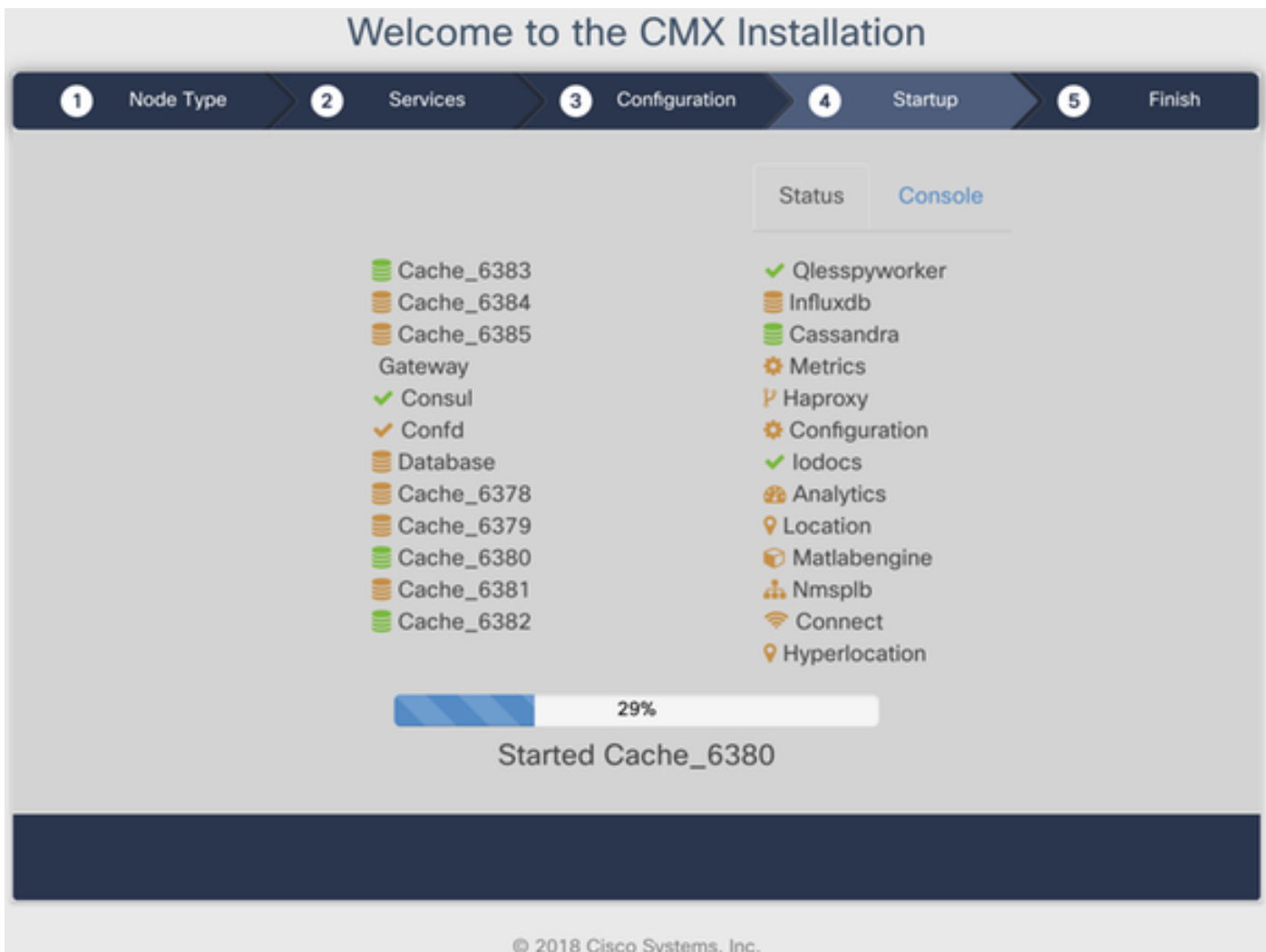


图28.启动过程

第3步按Please click以继续设置：



图29.单击继续设置

步骤 4 安装过程现已完成。您将被重定向到设置助手以完成节点的特定配置（映射导入、与无线控制器配对以及邮件服务器设置）：

设置完成后，请确保清除浏览器cookie和缓存。不执行此操作可能会导致某些CMX网页为空。

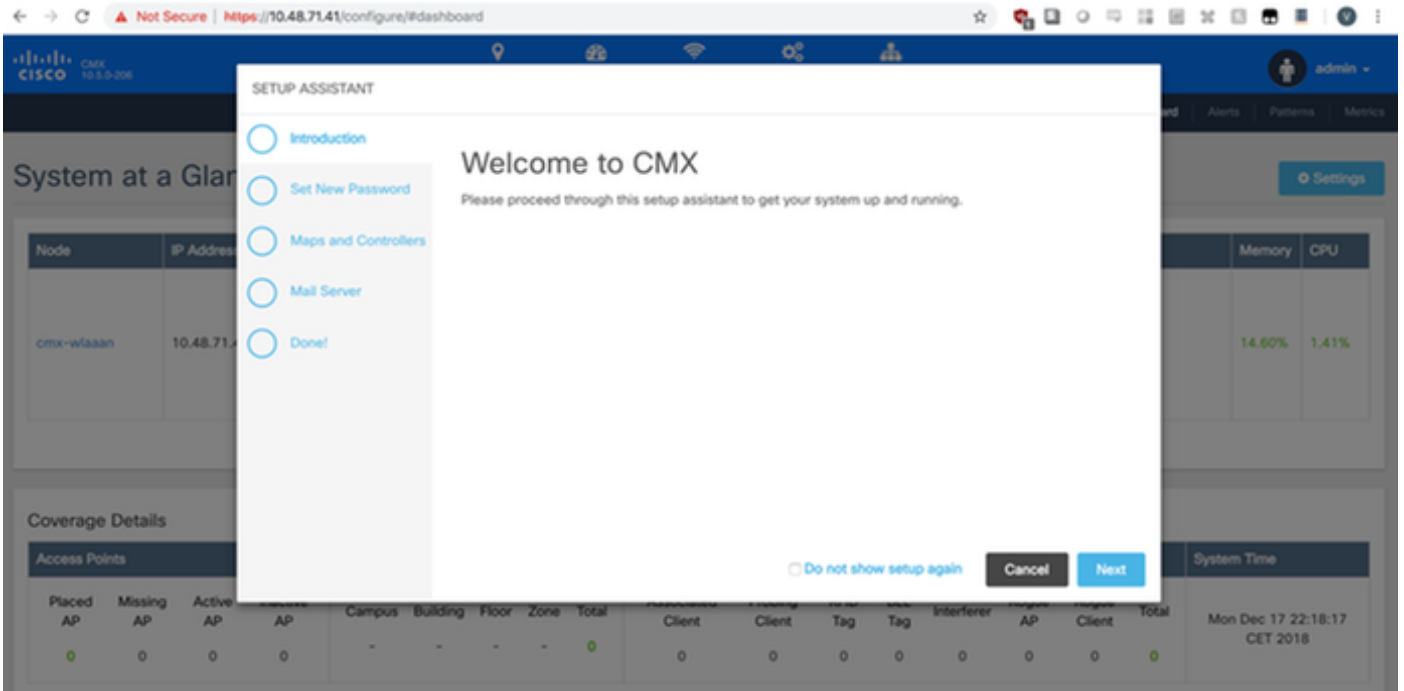


图29.CMX设置助手