

在Cisco MSE 3375上安裝CMX 10.5

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簡介

本文檔將指導網路管理員在Cisco 3375 MSE裝置上安裝Cisco CMX 10.5映像。此過程還包括有關如何設定安裝所需的思科整合管理控制器(CIMC)的說明。

無法從CMX 10.2、10.3或10.4升級到10.5。需要全新安裝。

MD5cmx

10.510.5.0-20610.5.1-26CMX Web —> —>

為了避免撞到 [CSCvn64747](#) 安裝10.5.1-26時，建議先安裝10.5.0，然後升級到10.5.1-26

必要條件

需求

Cisco 3375 MSE裝置

Cisco CMX 10.5 ISO檔案(從<https://software.cisco.com>下載)

採用元件

本指南中使用的元件：

- 採用CIMC版本4.0(1a)的Cisco 3375
- 思科互連行動體驗版本10.5.1-27
- 運行MacOS Mojave和Google Chrome作為Web瀏覽器的MacBook

安裝

CIMC配置和KVM啟動

步驟1 將顯示器插入VGA埠，鍵盤插入裝置背部的USB埠。開啟電腦電源。按 F8 在引導螢幕進入CIMC配置實用程式期間：



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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 ...

圖1.啟動螢幕

步驟2 配置CIMC引數，請按 F10 儲存並等待45秒鐘，以便應用更改。按 F5 刷新並驗證設定是否已應用。按一下 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

```

圖2. Cisco IMC配置實用程式

要從您的網路訪問CIMC，請通過裝置背面的管理埠將MSE 3375連線到交換機：

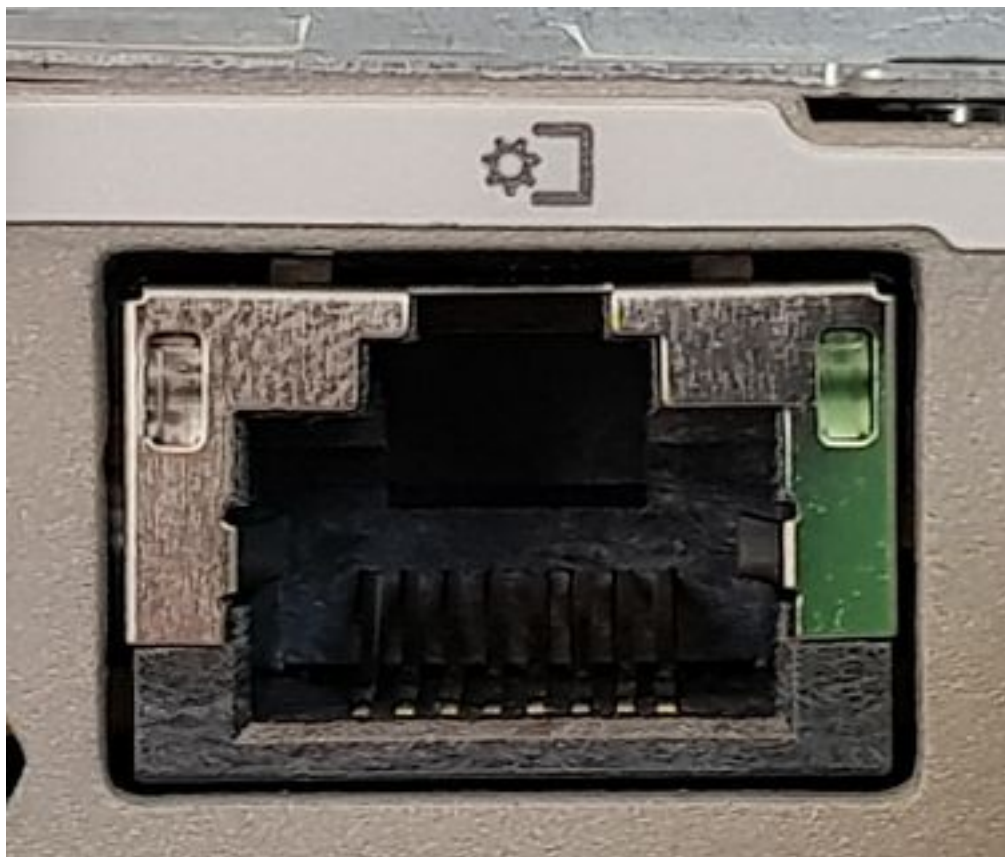


圖3.管理埠

步驟3 在Chrome Web瀏覽器中，轉到 http://<cimc_ip_address>。首次登入時，預設使用者名稱將為 *admin*。預設密碼為 *password*。如果您執行CIMC 4.0(1a)版，則登入螢幕將如下所示：



圖4. CIMC登入螢幕

步驟4 登入後，按右上角的啟動KVM控制權。CIMC v4支援HTML和基於Java的KVM。運行基於Java的KVM需要Java 1.6.0_14或更高版本。本教程將使用HTML文檔。



圖5. 啟動KVM控制權

如果瀏覽器中的彈出視窗被阻止，請確保按連結進行轉發：

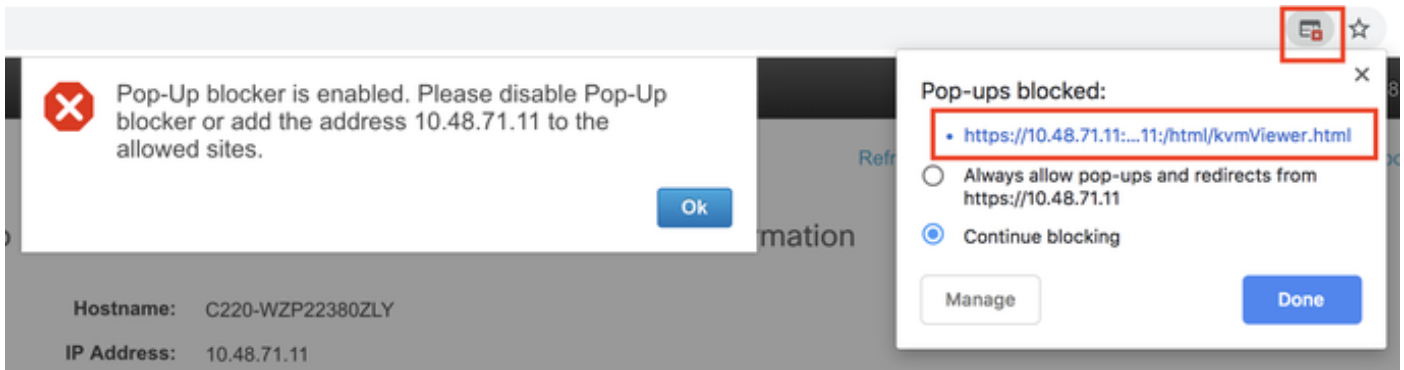


圖6.彈出視窗被阻止

步驟5 KVM啟動後，按Virtual Media並啟用Virtual Devices。啟用虛擬裝置後，下拉選單將展開並顯示其他選項。按MAP CD/DVD以對映CMX 10.5 ISO檔案：

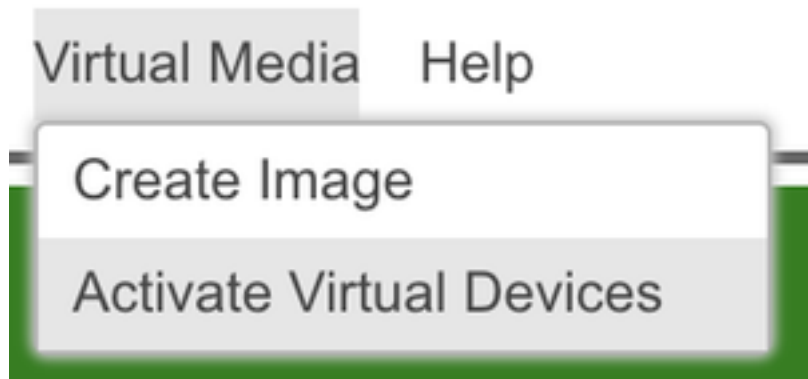


圖7.啟用虛擬裝置

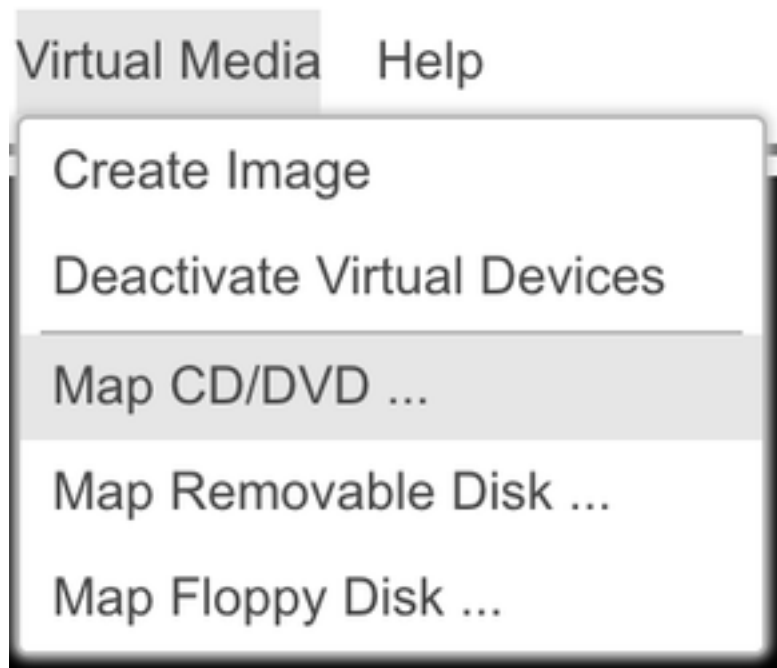


圖8.對映CD/DVD

步驟6 導覽並選擇下載的CMX映像，然後按Map Drive。按下後，「Virtual Media (虛擬媒體)」選單將再次展開，以顯示對映的映像：

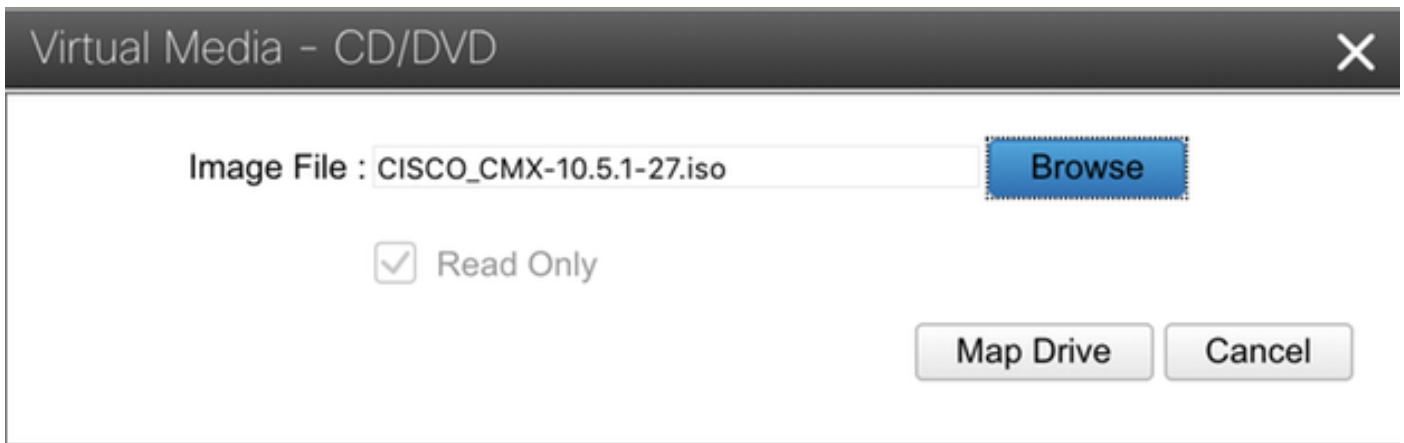


圖9.對映驅動器



圖10.對映的CMX影象

步驟7 檢查映像是否正確連線後，轉至Power頁籤，然後選擇Reset System (熱啟動) 以重置裝置。啟動過程中，按F7開始安裝對映的映像：

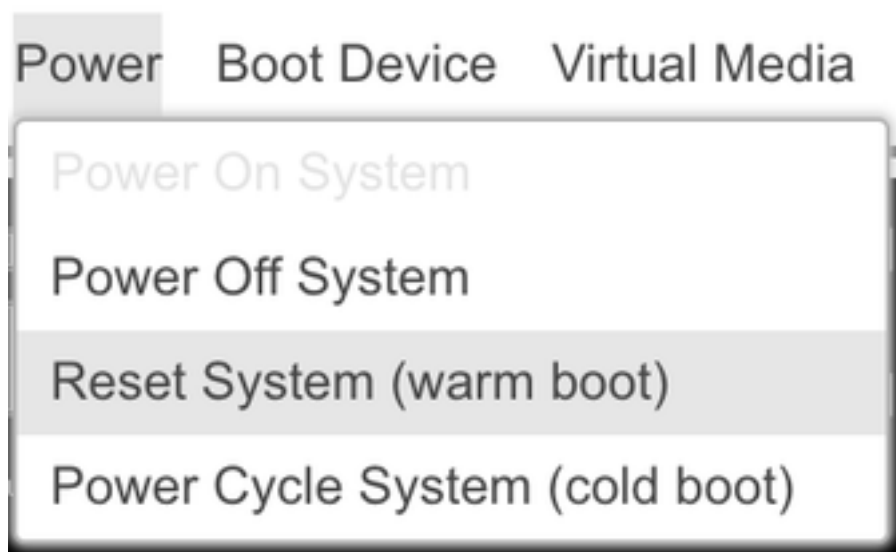


圖11.重新啟動裝置



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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

圖12. CIMC引導選擇選單

CMX映像安裝

步驟1 選擇 使用當前控制檯安裝CMX 繼續安裝。選定後，安裝指令碼將開始載入：

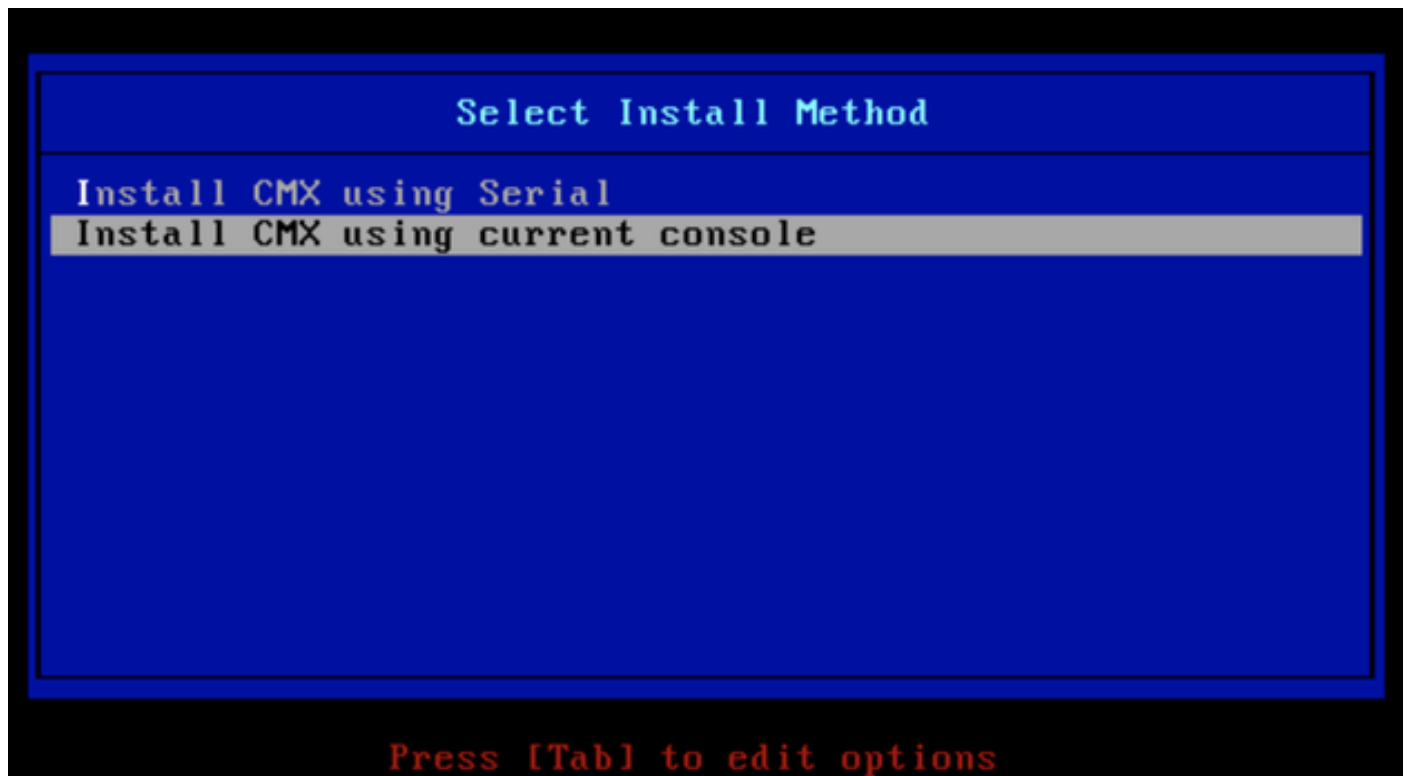


圖13.繼續在當前KVM中安裝


```

*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**
                                RAID10 virtual drive sucessfully created
1) [] Language settings                2) [] Time settings                Now configur
    (English (United States))                (America/Los_Angeles timezone)
3) [] Installation source            4) [] Software selection
    (Local media)                            (Minimal Install)operly**
5) [] Installation Destination        6) [] Kdump
    (Custom partitioning selected)            (Kdump is enabled)        RAID10 virtual drive configured and working...
7) [] Network configuration                8) [] User creation
    (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)

```

圖16. 按下Enter鍵後，安裝將開始

步驟3 CMX安裝過程大約需要20-30分鐘：

```

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.
..

```

圖17. 安裝需要20-30分鐘

CMX初始設定

步驟1 安裝完成後，電腦將自動重新啟動。這一次，在引導時不要按任何鍵。

步驟2 使用預設憑證(cmxadmin/cisco)登入CMX，如下面的頂部所示：



圖18.首次登入

步驟3 系統提示您更改root和cmxadmin使用者的密碼。必須滿足密碼規範：

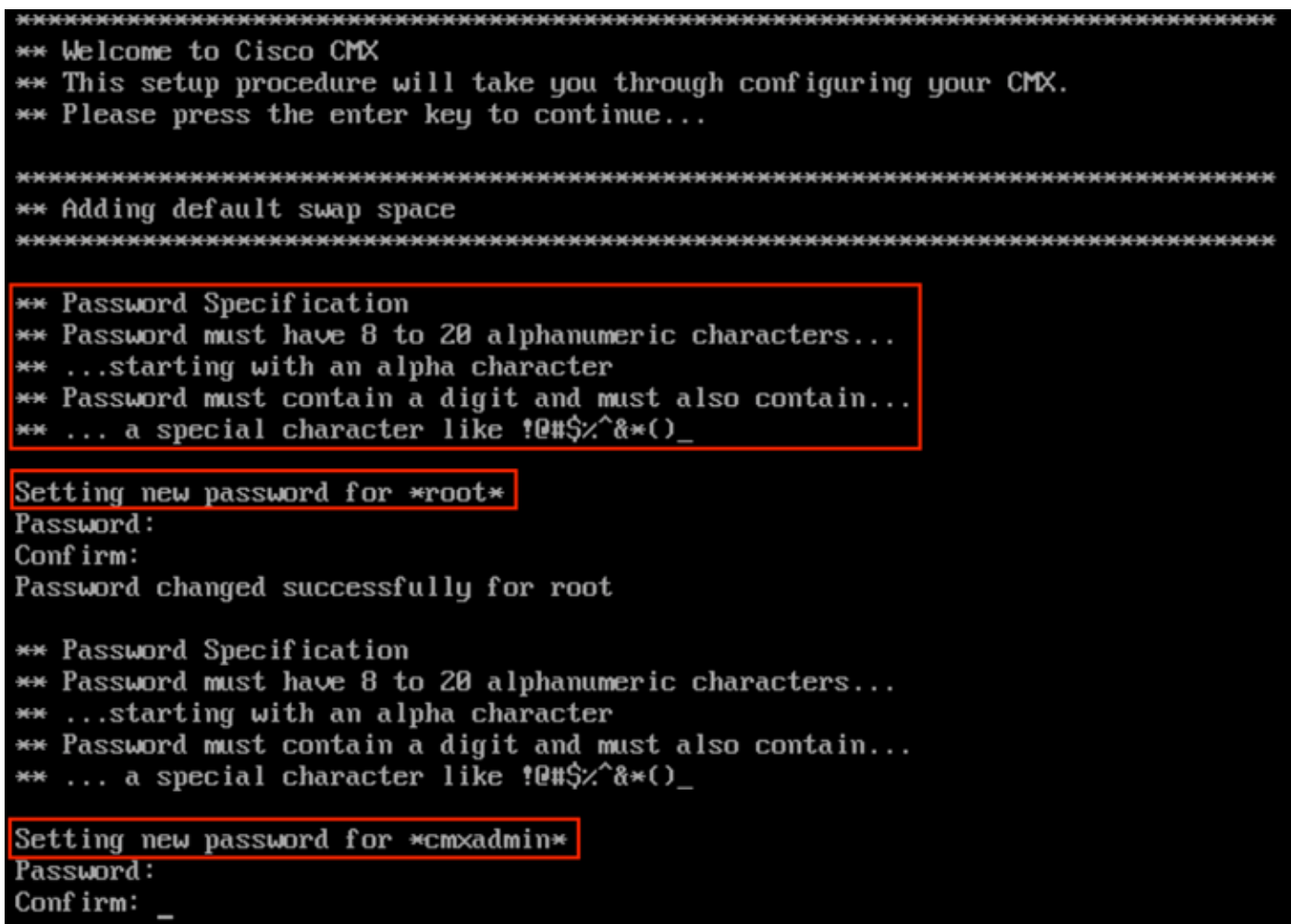


圖19.更改根密碼和cmxadmin密碼

步驟4 設定網路引數。需要能夠訪問網關和DNS才能應用網路設定。如果網路引數無法訪問，系統將提示您再次配置網路引數。如果網路引數可以訪問，Keepalive服務將重新啟動。在此過程中，請勿按Enter鍵！

```
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
```

圖20.網路引數設定

```
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
```

圖21.如果網關無法訪問，網路配置提示符將出現

步驟5 重新啟動keepalive服務後，安裝將提示輸入NTP伺服器IP地址、區域和國家/地區。如果未使用NTP，提示符將跳至時區和時間/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) []: _

```

圖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
```

圖23. 時區和日期配置

步驟6 系統提示您確認輸入的資訊。如果選擇否，您將返回到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
#?
```

圖24. NTP配置

步驟6 下一個提示將要求您選擇是否要進行磁碟加密。KVM設定到此結束，其餘配置將通過CMX網路介面(GUI)完成：

磁碟加密是GDPR合規性的要求之一。有關CMX GDPR合規性的完整資訊可在該鏈[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 ~]$
```

圖25.磁碟加密提示

一旦加密，驅動器就無法解密。

CMX節點安裝

步驟1：通過https://<cmx_ip_address>:1984訪問CMX GUI。埠1984僅在初始設定或升級期間使用。使用cmxadminuser和以前配置的密碼登入：

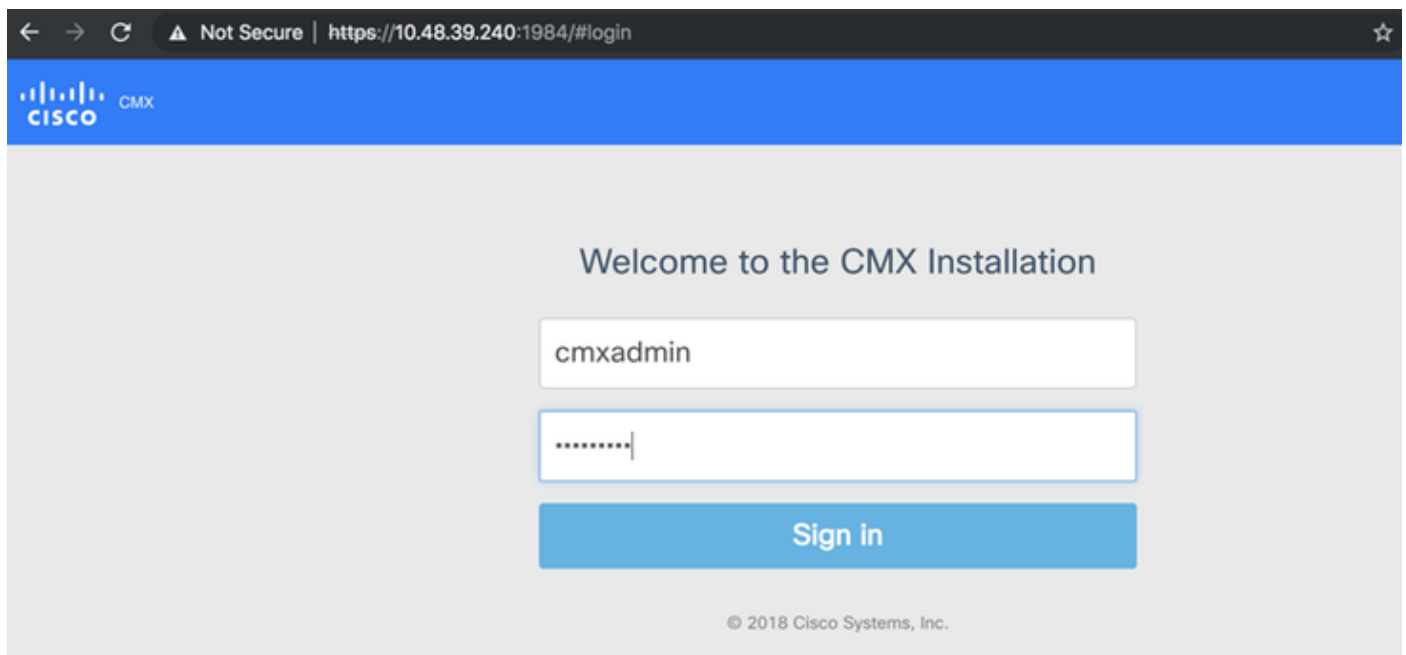


圖26. CMX GUI節點安裝登入

步驟2選擇CMX節點型別（位置或狀態）。請注意，以後不能更改此項。選擇後，等待配置和啟動完成：

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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圖27. CMX節點型別選擇



圖28.啟動過程

步驟3 按一下Please click to continue setup:



圖29.按一下繼續安裝

步驟4 安裝過程現已完成。您將重定向到設定助手，以完成節點的特定配置（對映匯入、與無線控制器配對和郵件伺服器設定）：

安裝完成後，請確保清除瀏覽器cookie和快取。如果不執行此操作，可能會導致某些CMX網頁為空。

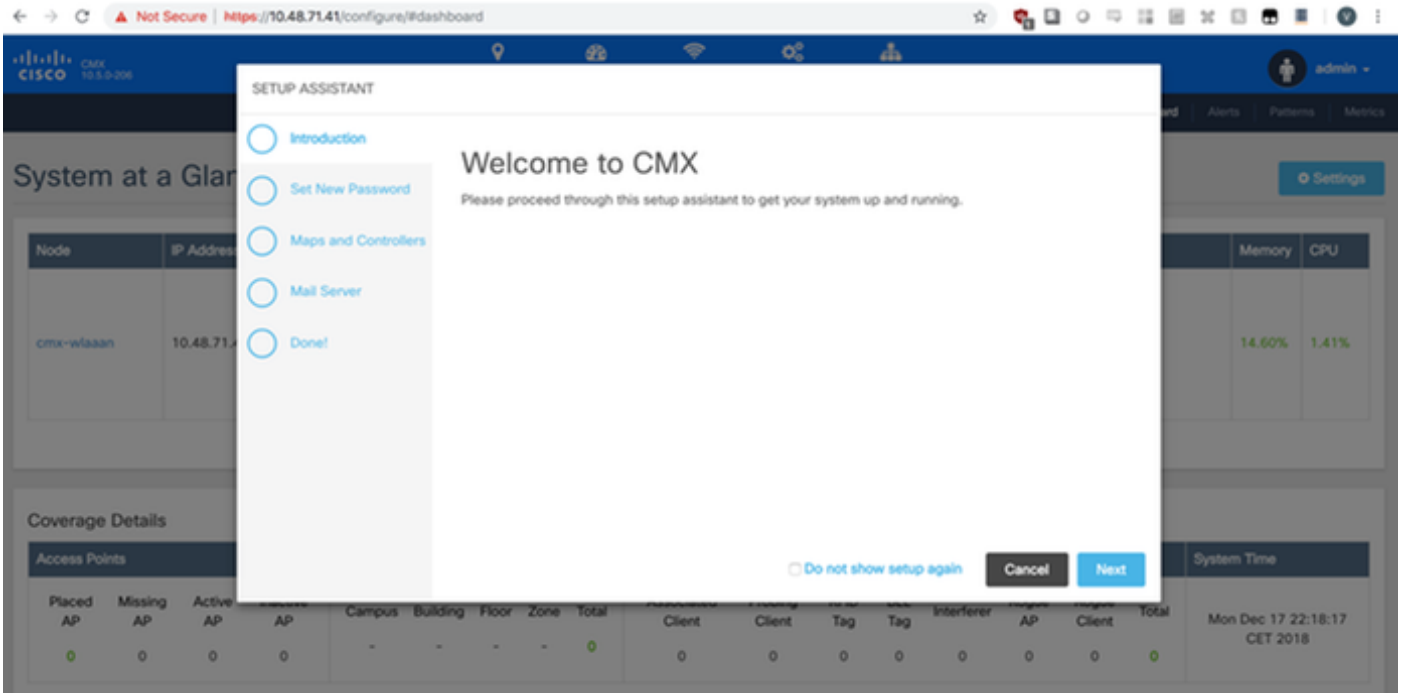


圖29.CMX設定助手