CSP 2100升級程式

目錄

簡介

本檔案介紹升級思科雲端服務平台(CSP)2100的程式。
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必要條件

需求

思科建議您瞭解Cisco CSP 2100。

請在升級之前參閱版本說明。

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/csp_2100/release_notes/b_Cisco_CSP_2100_ReleaseNotes_2_2_5.html

請參閱此處的快速入門手冊，

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/csp_2100/quick_start/b_Cisco_CSP_2100_Quick_Start_2_2_5.html#id_14296

其他資訊

- CSP-2100-X1是C220-M4S
- CSP-2100-X2是C240-M4S

採用元件

本文件中的資訊是以下列軟體和硬體版本為依據，

- CSP 2100
- UCS C220 M4S系列伺服器 — 思科整合式管理控制器(CIMC)
- 用於對映虛擬介質的鍵盤影片滑鼠(KVM)
- CSP 2100軟體作為ISO映像，位於 https://software.cisco.com/download/home/286286769/type/286289082/release/2.2.5

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路正在作用，請確保您已瞭解任何變更或設定可能造成的影響。思科建議先備份組態，然後再繼續升級。

案例

在此案例中，我們將CSP 2100從**版本2.2.4**升級**到2.2.5**

程式

附註：請確保在升級期間，KVM控制檯運行的工作站與CSP-2100之間的網路連線不會發生抖動。

步驟1.使用CIMC KVM控制檯並通過運行「**show version**」**命令檢查當前**韌體。

```
csp2100a# show version

Cisco Cloud Services Platform Software, 2100 Software (CSP-2100), Version 2.2.4 Build:48
TAC Support: http://www.cisco.com/tac
Copyright (c) 2016 by Cisco Systems, Inc
Compiled Thursday 21-December-2017 20:30

Linux csp2100a 3.10.0-693.5.2.el7.x86_64 #1 SMP Fri Oct 13 10:46:25 EDT 2017 x86_64 x86_64 x86_64 GNU/Linux
Red Hat Enterprise Linux Server release 7.3 (Maipo)
CSP-2100 uptime is 11 weeks, 1 day, 10 hours, 54 minutes, 3 seconds

Cisco UCSC-C220-M4S, Version C220M4.3.0.3c.0.0831170216, processor Intel(R) Xeon(R) CPU E5-2690 v3 @ 2.60GHz
48 CPUs with 29774044 kB / 65757260 kB of memory
L1d cache 32K, L1i cache 32K, L2 cache 256K, L3 cache 30720K

4 - Total Physical Interfaces (PNICs)
   1 -  1 Gbps Physical Interfaces (PNICs) Up
   2 - 10 Gbps Physical Interfaces (PNICs) Up
   1 -  1 Gbps Physical Interfaces (PNICs) Down/Unconnected

32 - Total SR-IOV virtual function (VF) interfaces enabled
   0 - Number VF Interfaces currently in service use
```

步驟2.使用**save config-file filename.sav**"指令儲存組態（建議）。

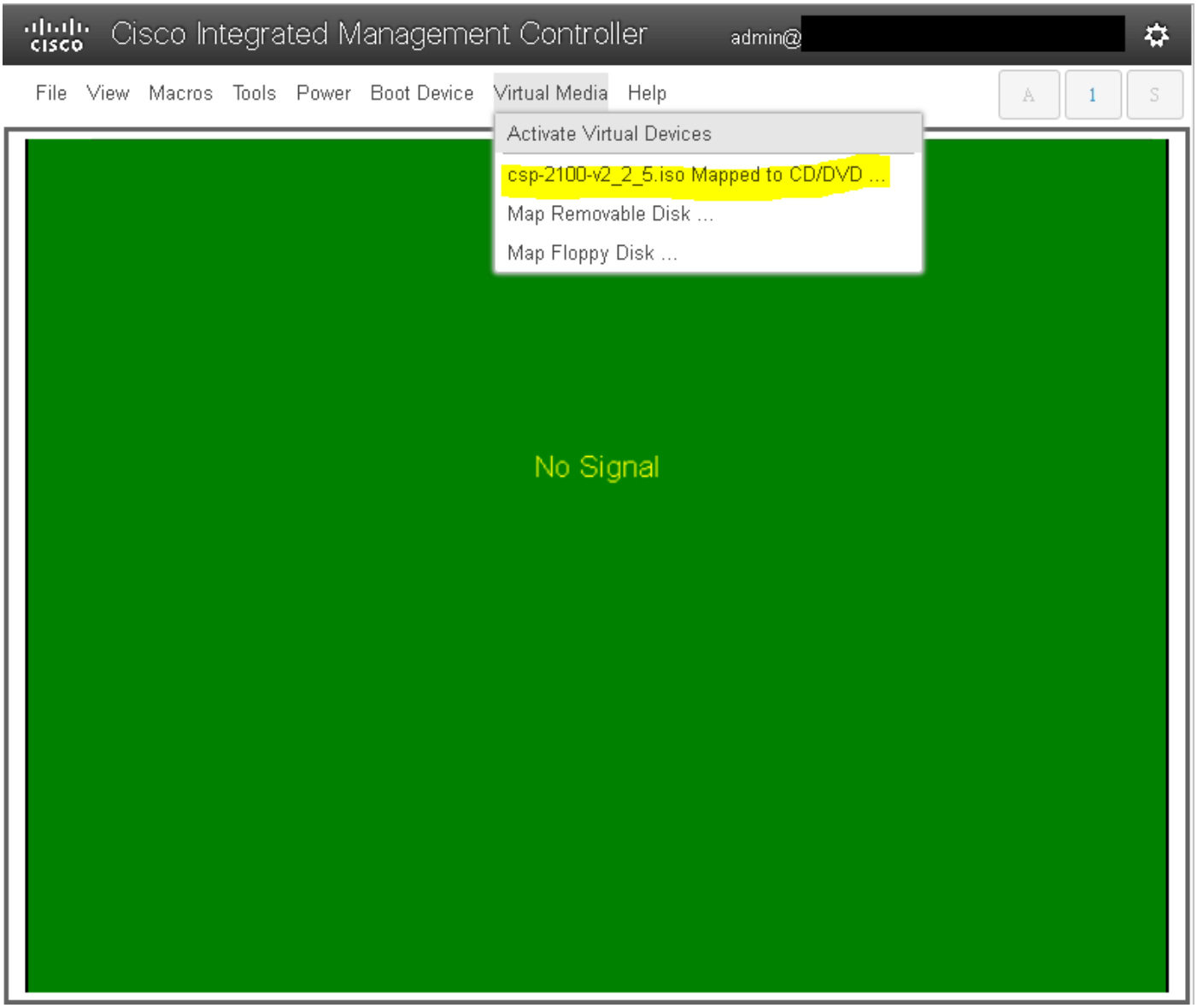
```
csp2100a# save config-file config_backup.sav
```

步驟3.檢查**config_backup.sav**檔案是否已產生

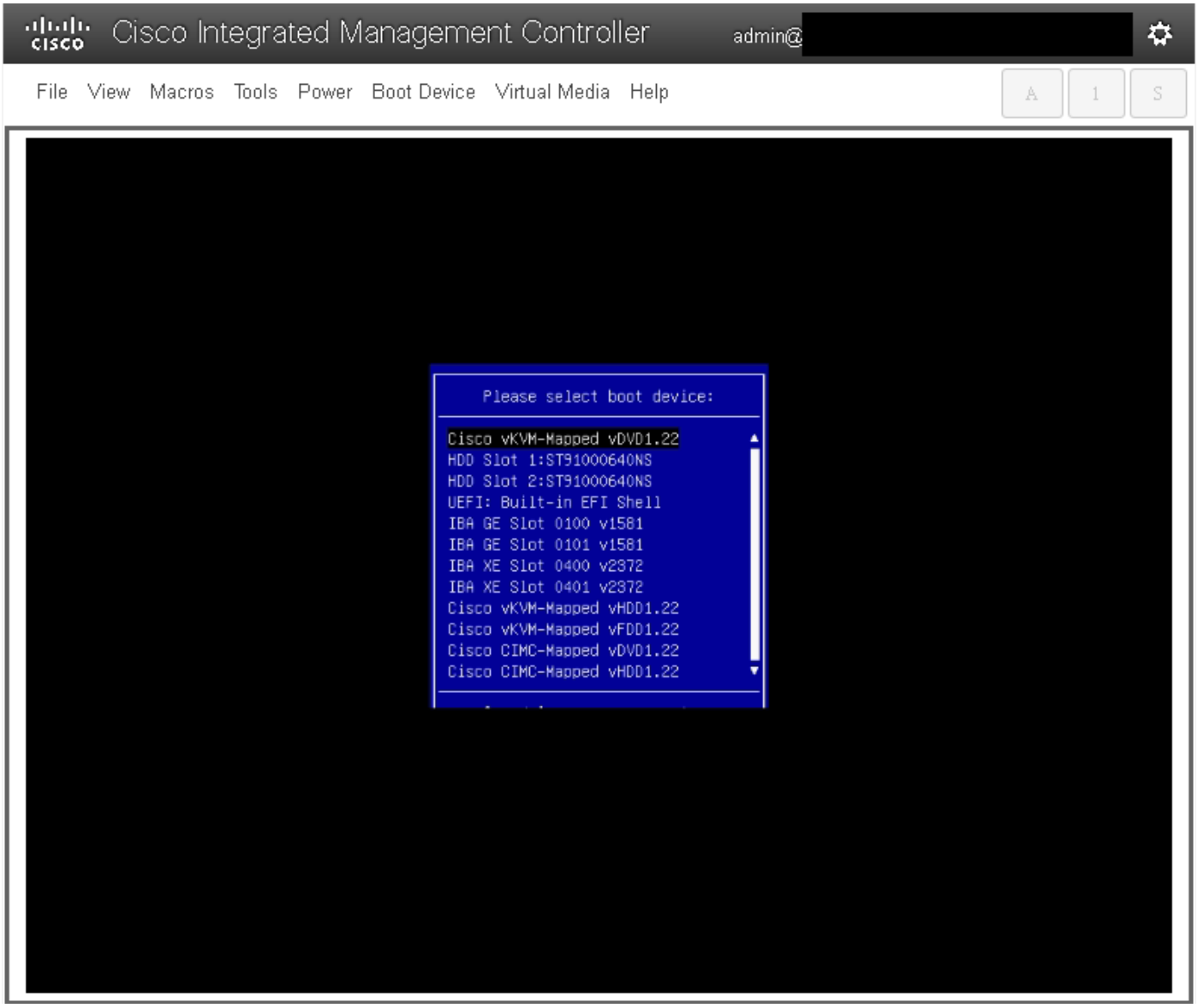
```
csp2100a# show repository
Local storage:
         File Name                 Last Modified              Size
pnic_utils.py                Fri Feb 16 13:53:26 2018           16660
controller-17.2.6-9019.qcow2 Fri Feb  2 04:35:45 2018      2366544384
config_backup.sav            Thu Apr 19 20:57:20 2018            2778
dplugdisk2                   Tue Mar  6 14:17:27 2018         3145728
se.qcow2                     Sun Feb  4 01:56:59 2018       671525376
avi_meta_controller.yml      Fri Feb  2 16:30:48 2018             121
avi_meta_data_se-1.yml       Mon Feb  5 17:17:59 2018             180
csp_show_tech.tar.gz         Thu Feb  1 17:53:16 2018         9904003
```

步驟4. 從https://software.cisco.com/download/home/286286769/type/286289082/release/2.2.5下載CSP 2100的iso映像

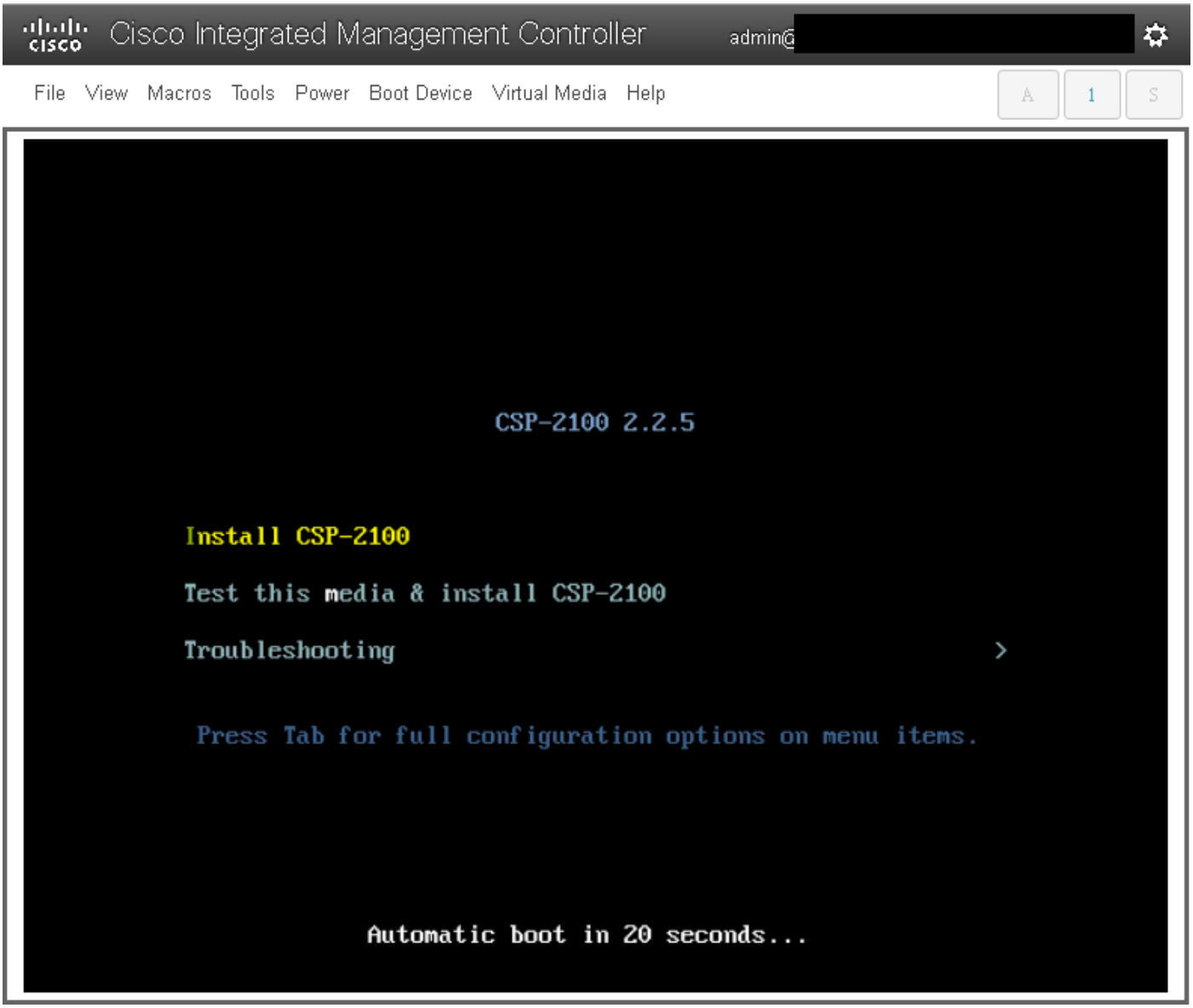
步驟5. 開啟KVM並對映ISO映像。



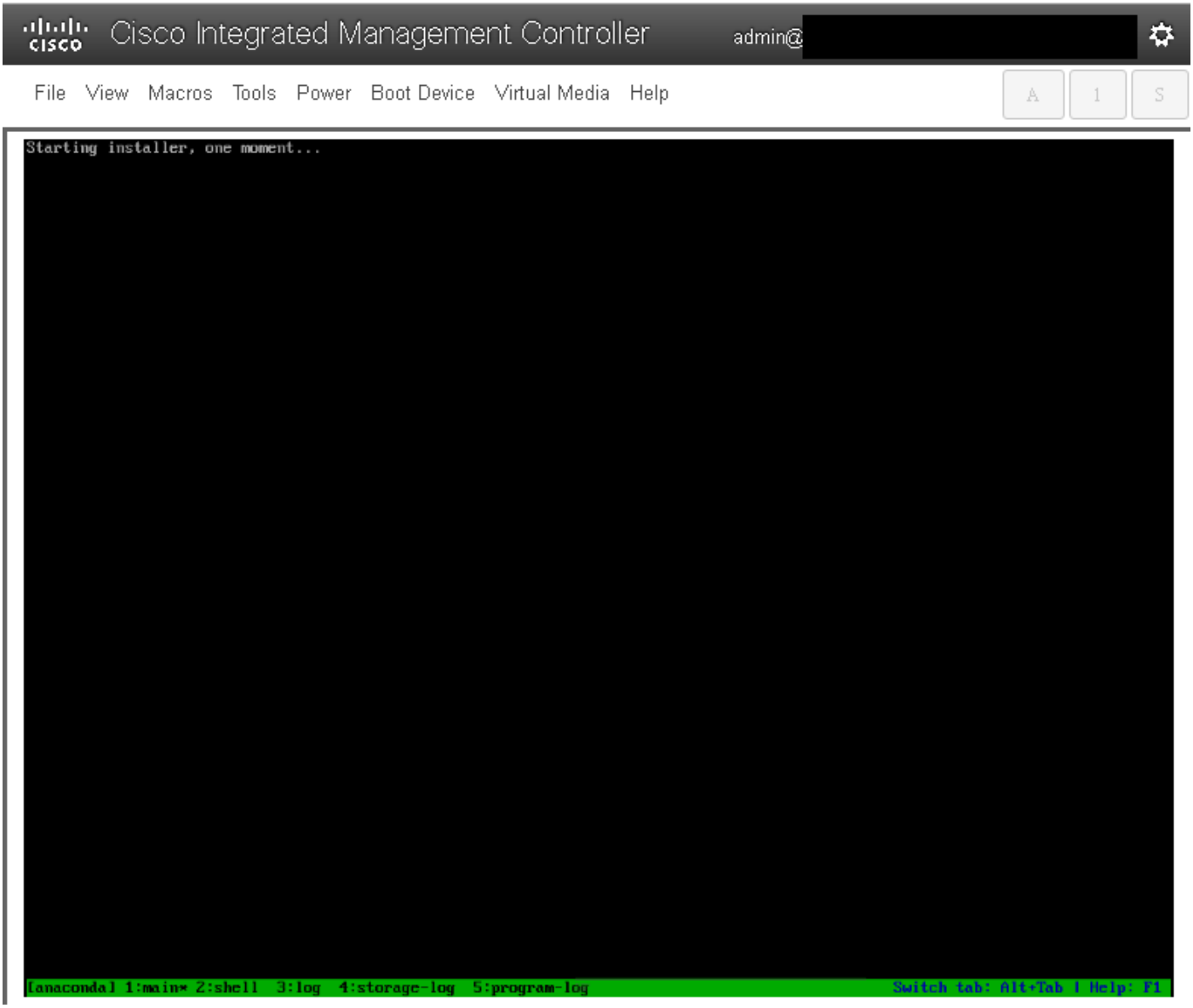
步驟6. **重新啟動伺服器（冷重啟）**，然後按**F6**輸入**「啟動選擇選單」**並選擇**「Cisco vKVM對映的vDVD1.22」**

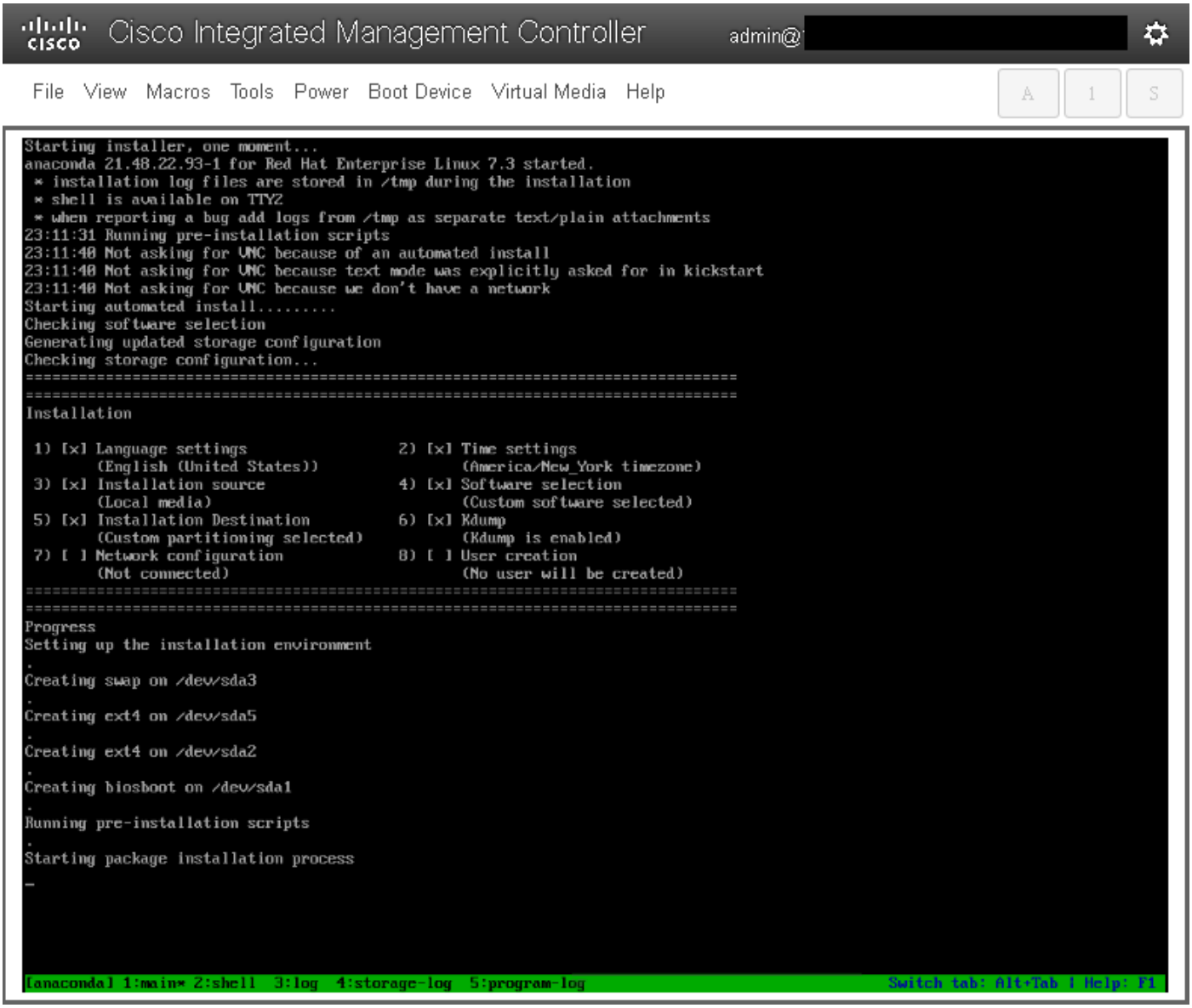


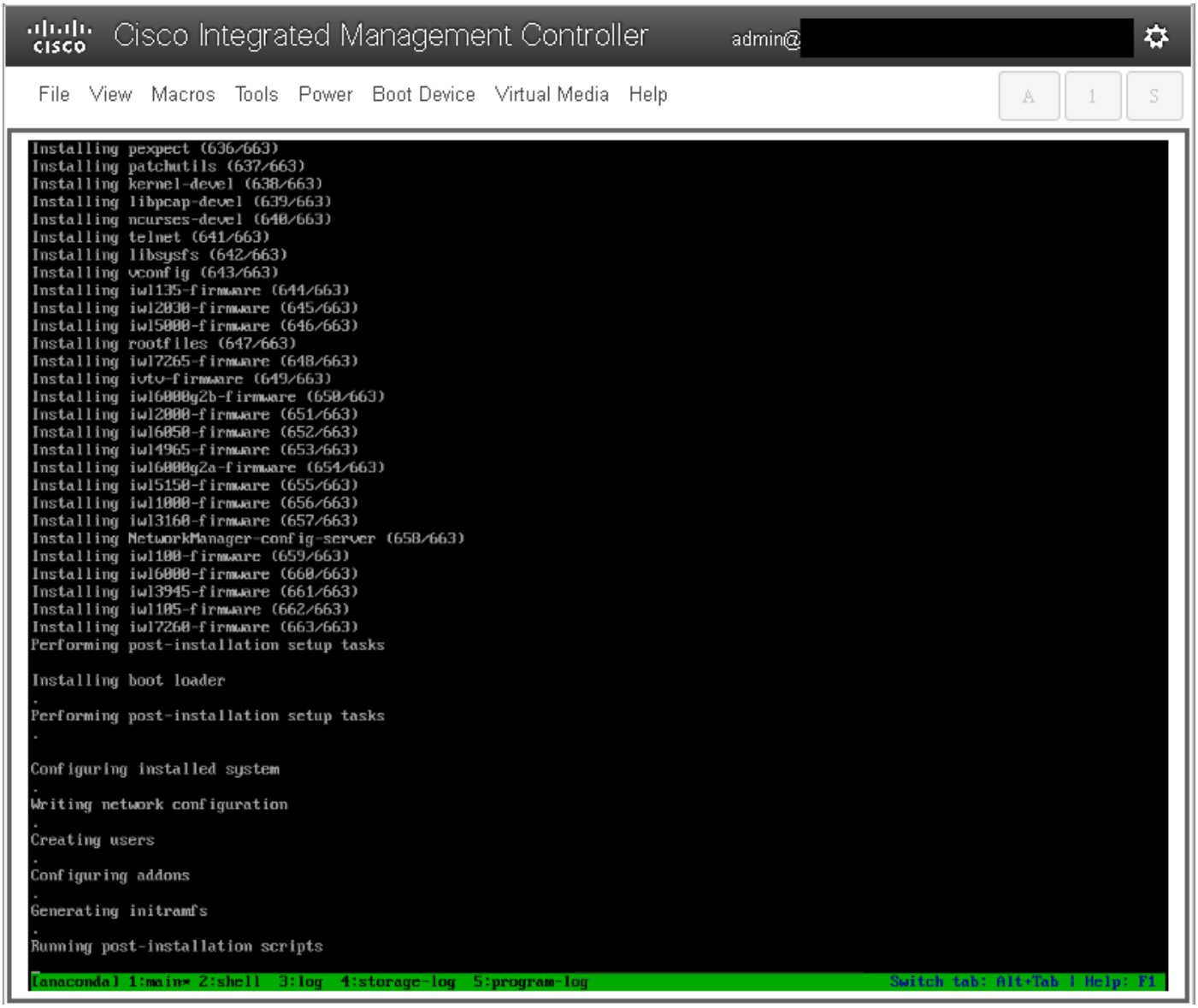
步驟7.ISO映像啟動後，選擇**「安裝CSP-2100」。** 儘管我們選擇**「安裝CSP-2100」**，但是這仍會執行**升級**。



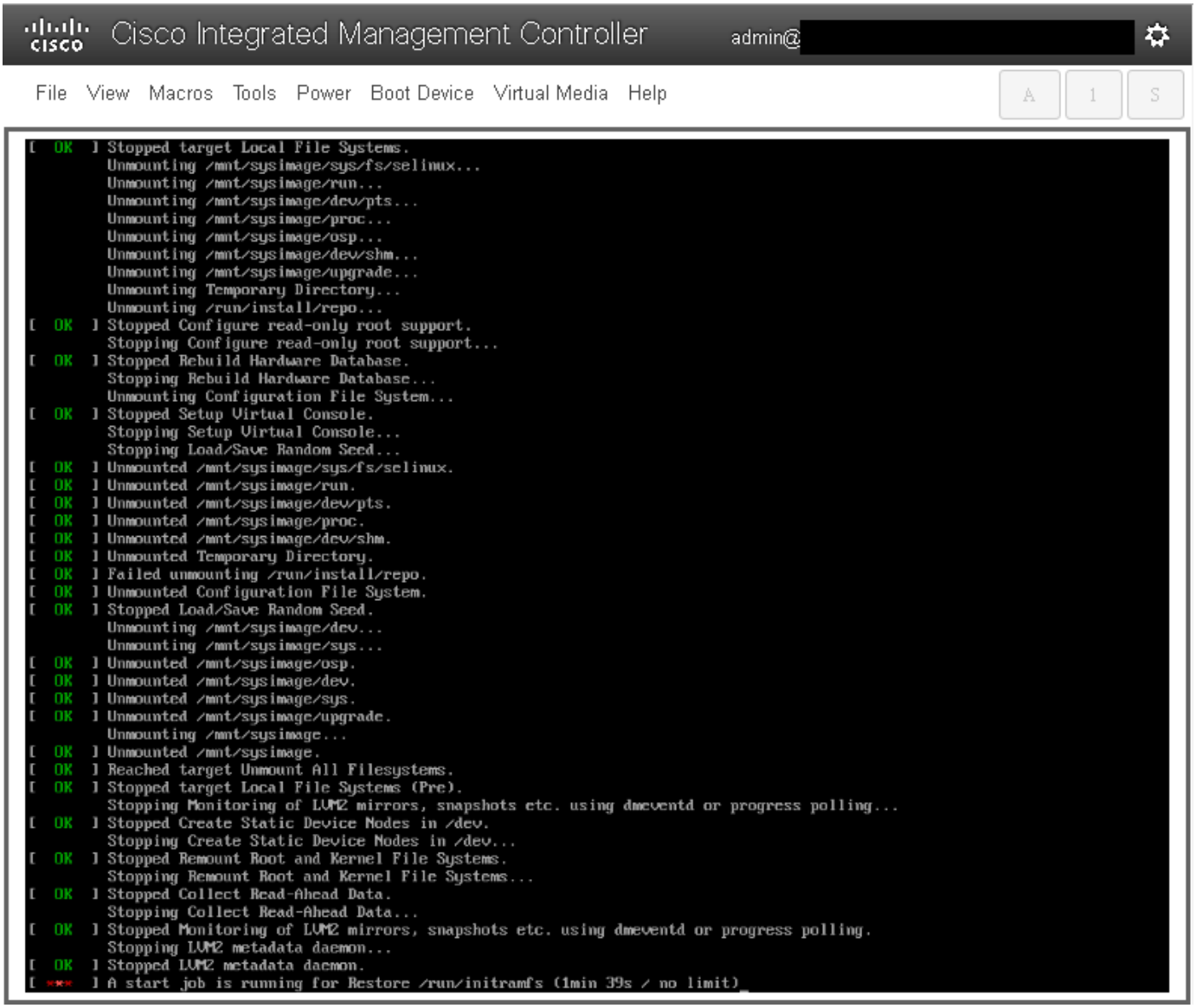
步驟8.安裝過程開始，大約需**要45-50分鐘才能完**成，在此期間，安裝程式將運行**升級前和升級後安裝指令碼**，將CSP 2100升級到新的韌體版本。

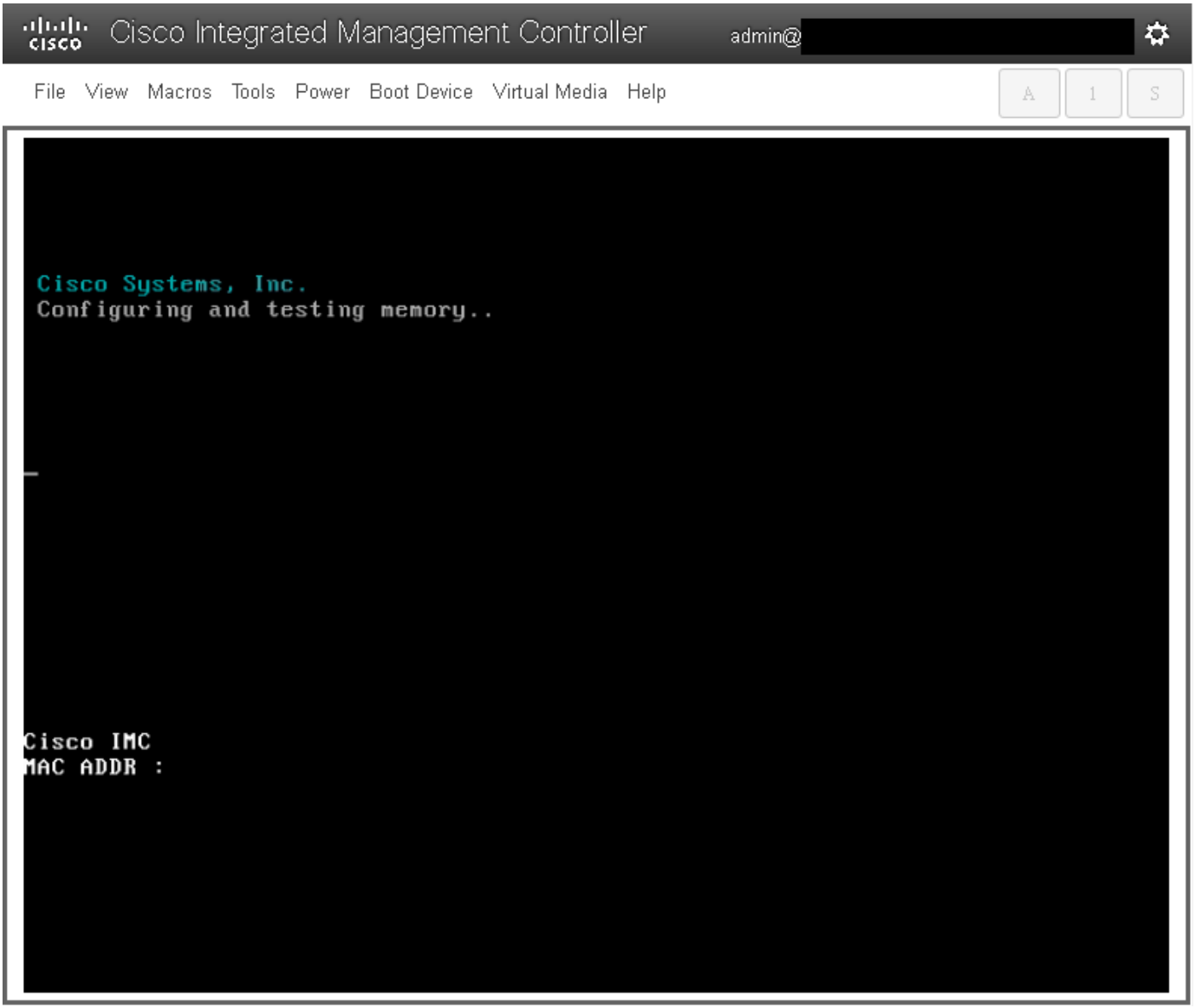

Cisco Integrated Management Controller
admin@
File View Macros Tools Power Boot Device Virtual Media Help
A 1 S
Starting installer, one moment...
[anaconda] 1:main* 2:shell 3:log 4:storage-log 5:program-log
Switch tab: Alt+Tab | Help: F1


Cisco Integrated Management Controller
admin@
File View Macros Tools Power Boot Device Virtual Media Help
A 1 S
Starting installer, one moment...
anaconda 21.48.22.93-1 for Red Hat Enterprise Linux 7.3 started.
* installation log files are stored in /tmp during the installation
* shell is available on TTY2
* when reporting a bug add logs from /tmp as separate text/plain attachments
23:11:31 Running pre-installation scripts
23:11:40 Not asking for VNC because of an automated install
23:11:40 Not asking for VNC because text mode was explicitly asked for in kickstart
23:11:40 Not asking for VNC because we don't have a network
Starting automated install.....
Checking software selection
Generating updated storage configuration
Checking storage configuration...
Installation
1) [x] Language settings
(English (United States))
2) [x] Time settings
(America/New_York timezone)
3) [x] Installation source
(Local media)
4) [x] Software selection
(Custom software selected)
5) [x] Installation Destination
(Custom partitioning selected)
6) [x] Kdump
(Kdump is enabled)
7) [ ] Network configuration
(Not connected)
8) [ ] User creation
(No user will be created)
Progress
Setting up the installation environment
Creating swap on /dev/sda3
Creating ext4 on /dev/sda5
Creating ext4 on /dev/sda2
Creating biosboot on /dev/sda1
Running pre-installation scripts
Starting package installation process
[anaconda] 1:main* 2:shell 3:log 4:storage-log 5:program-log
Switch tab: Alt+Tab | Help: F1



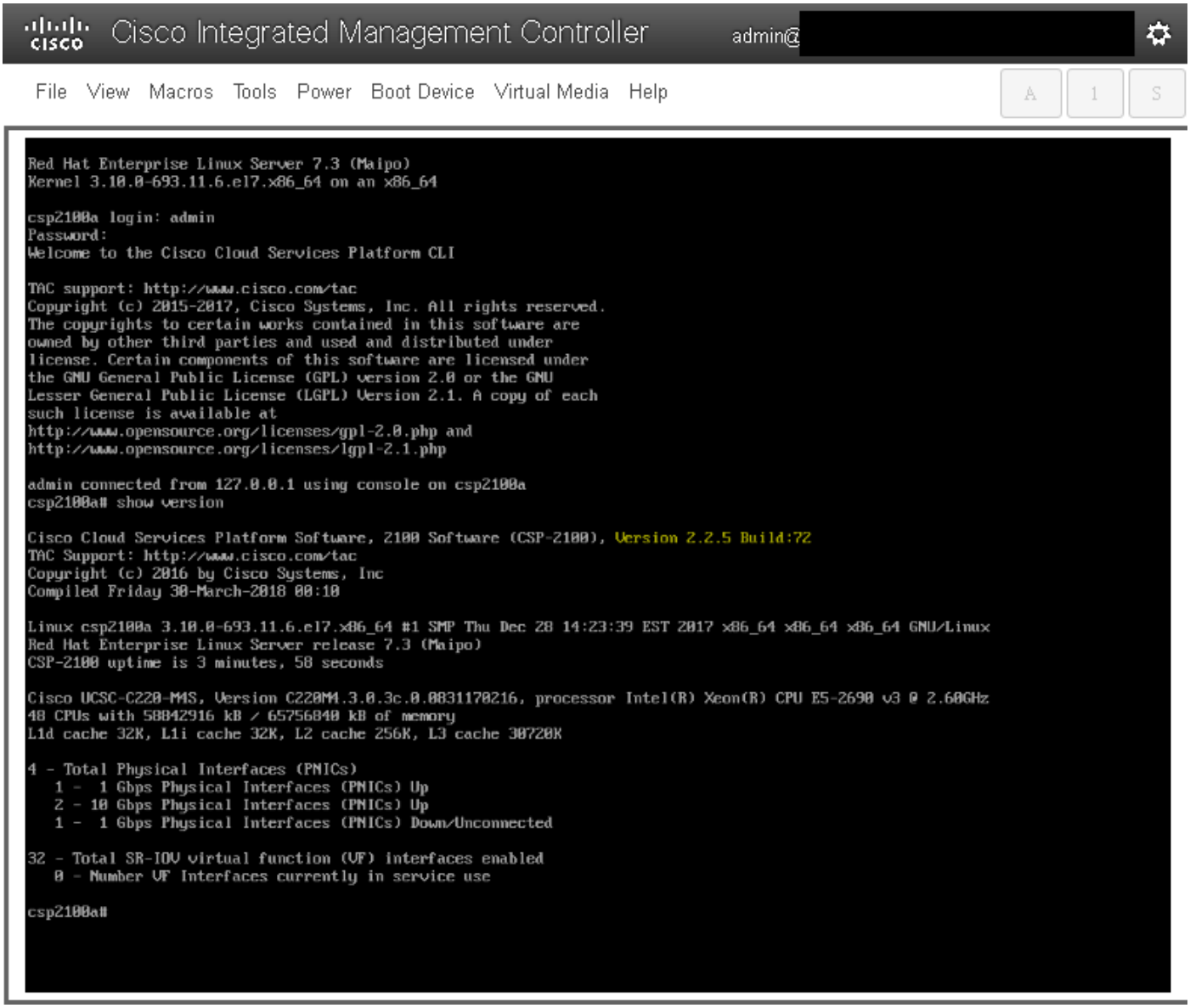
步驟9.運行**安裝後指令碼後**，所有服務都將停止，伺服器將重新啟動：


Cisco Integrated Management Controller
admin@
File View Macros Tools Power Boot Device Virtual Media Help
A 1 S
[OK] Stopped target Local File Systems.
Unmounting /mnt/sysimage/sys/fs/selinux...
Unmounting /mnt/sysimage/run...
Unmounting /mnt/sysimage/dev/pts...
Unmounting /mnt/sysimage/proc...
Unmounting /mnt/sysimage/osp...
Unmounting /mnt/sysimage/dev/shm...
Unmounting /mnt/sysimage/upgrade...
Unmounting Temporary Directory...
Unmounting /run/install/repo...
[OK] Stopped Configure read-only root support.
Stopping Configure read-only root support...
[OK] Stopped Rebuild Hardware Database.
Stopping Rebuild Hardware Database...
Unmounting Configuration File System...
[OK] Stopped Setup Virtual Console.
Stopping Setup Virtual Console...
Stopping Load/Save Random Seed...
[OK] Unmounted /mnt/sysimage/sys/fs/selinux.
[OK] Unmounted /mnt/sysimage/run.
[OK] Unmounted /mnt/sysimage/dev/pts.
[OK] Unmounted /mnt/sysimage/proc.
[OK] Unmounted /mnt/sysimage/dev/shm.
[OK] Unmounted Temporary Directory.
[OK] Failed unmounting /run/install/repo.
[OK] Unmounted Configuration File System.
[OK] Stopped Load/Save Random Seed.
Unmounting /mnt/sysimage/dev...
Unmounting /mnt/sysimage/sys...
[OK] Unmounted /mnt/sysimage/osp.
[OK] Unmounted /mnt/sysimage/dev.
[OK] Unmounted /mnt/sysimage/sys.
[OK] Unmounted /mnt/sysimage/upgrade.
Unmounting /mnt/sysimage...
[OK] Unmounted /mnt/sysimage.
[OK] Reached target Unmount All Filesystems.
[OK] Stopped target Local File Systems (Pre).
Stopping Monitoring of LVM2 mirrors, snapshots etc. using dmeventd or progress polling...
[OK] Stopped Create Static Device Nodes in /dev.
Stopping Create Static Device Nodes in /dev...
[OK] Stopped Remount Root and Kernel File Systems.
Stopping Remount Root and Kernel File Systems...
[OK] Stopped Collect Read-Ahead Data.
Stopping Collect Read-Ahead Data...
[OK] Stopped Monitoring of LVM2 mirrors, snapshots etc. using dmeventd or progress polling.
Stopping LVM2 metadata daemon...
[OK] Stopped LVM2 metadata daemon.
[***] A start job is running for Restore /run/initramfs (1min 39s / no limit)



驗證

啟動所有服務後，登入**到使用者帳戶，**並檢**查運行版本**以確認升級狀態。



**********升級完成!!CSP 2100啟動時為2.2.5版!! **********