

CSP 2100升級程式

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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控制權運行的工作站與CSP-2100之間的網路連線不會發生抖動。

步驟1.使用CIMC KVM控制權並通過運行「show version」命令檢查當前韌體。

```
osp2100a# 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 osp2100a 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）。

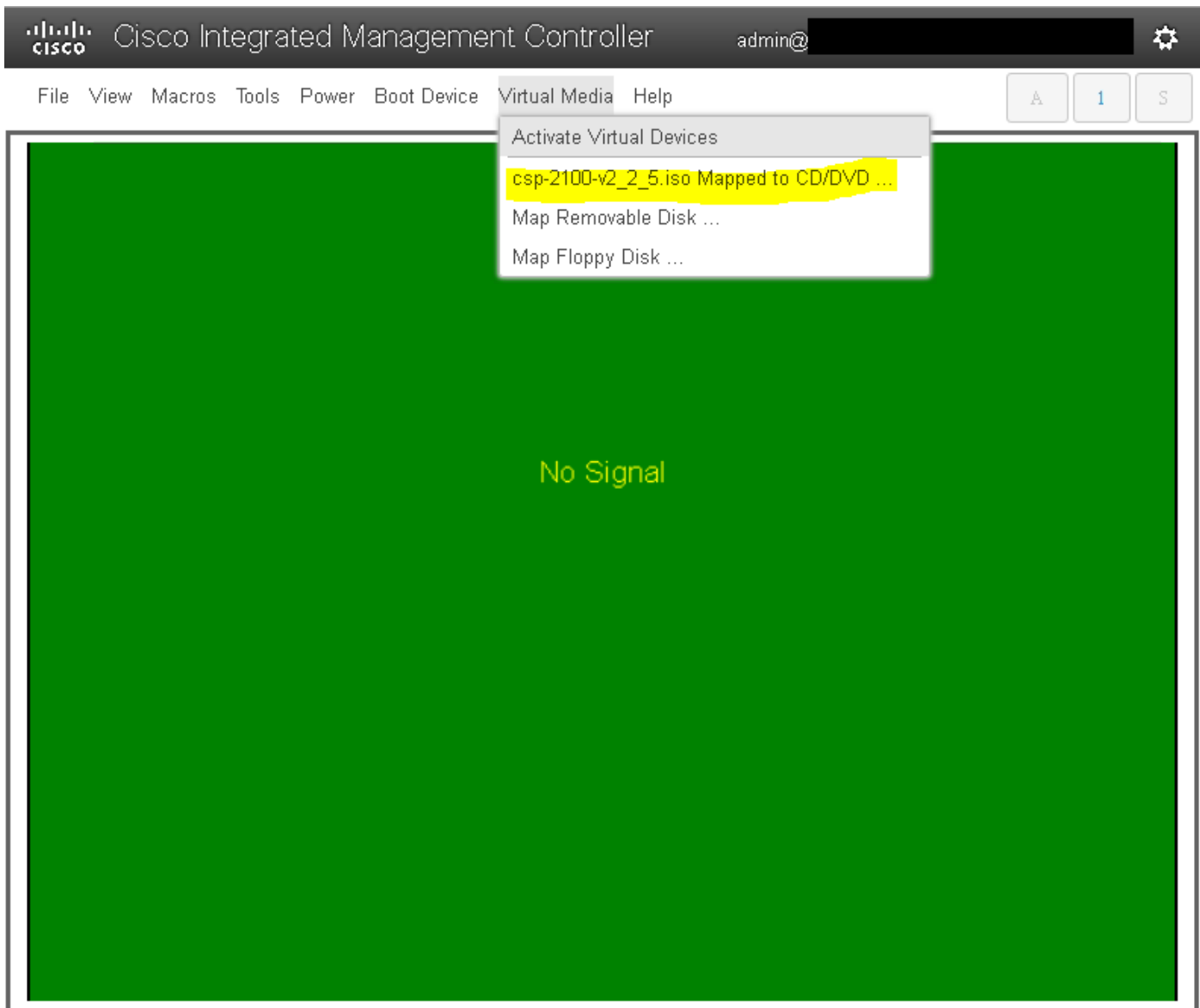
```
osp2100a# save config-file config_backup.sav
```

步驟3.檢查config_backup.sav檔案是否已產生

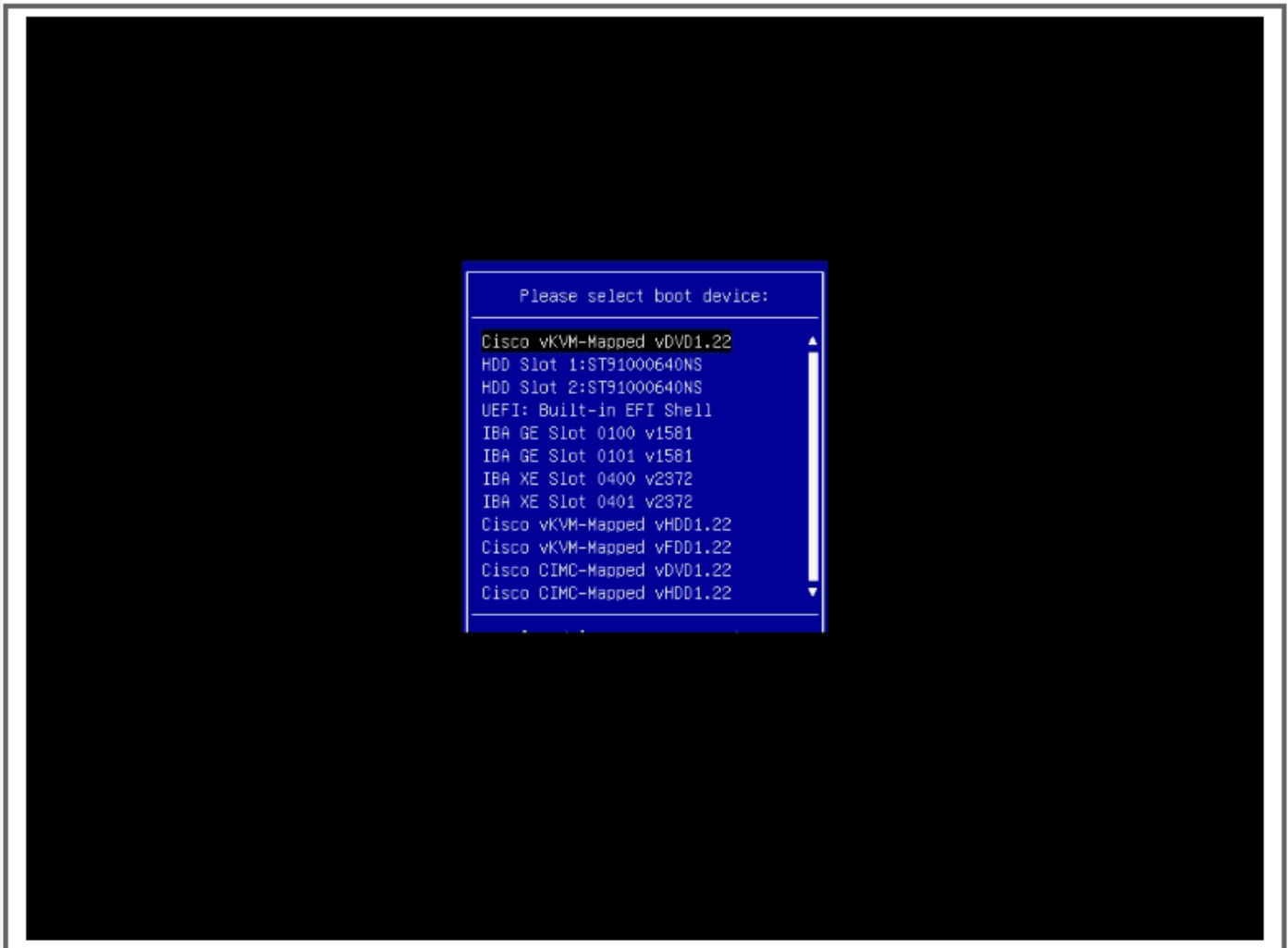
```
osp2100a# show repository
Local storage:
  File Name                Last Modified                Size
pnuc_utils.py              Fri Feb 16 13:53:26 2018    16660
controller-17.2.6-9019.qcow2 Fri Feb  2 04:35:45 2018   2366544384
config_backup.sav          Thu Apr 19 20:57:20 2018     2778
dplugdisk2                 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
osp_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。



CSP-2100 2.2.5

Install CSP-2100

Test this media & install CSP-2100

Troubleshooting



Press Tab for full configuration options on menu items.

Automatic boot in 20 seconds...

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。



Starting installer, one moment...

```
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
23:11:48 Not asking for UIC because of an automated install
23:11:48 Not asking for UIC because text mode was explicitly asked for in kickstart
23:11:48 Not asking for UIC because we don't have a network
Starting automated install.....
Checking software selection
Generating updated storage configuration
Checking storage configuration...
=====
Installation

 1)  Language settings           2)  Time settings
    (English (United States))         (America/New_York timezone)
 3)  Installation source       4)  Software selection
    (Local media)                       (Custom software selected)
 5)  Installation Destination   6)  Kdump
    (Custom partitioning selected)      (Kdump is enabled)
 7)  Network configuration       8)  User creation
    (Not connected)                     (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
-
anaconda1 1:main* 2:shell 3:log 4:storage-log 5:program-log Switch tab: Alt+Tab | Help: F1
```



```
Installing pexpect (636/663)
Installing patchutils (637/663)
Installing kernel-devel (638/663)
Installing libpcap-devel (639/663)
Installing ncurses-devel (640/663)
Installing telnet (641/663)
Installing libsysfs (642/663)
Installing vconfig (643/663)
Installing iwl135-firmware (644/663)
Installing iwl2030-firmware (645/663)
Installing iwl5000-firmware (646/663)
Installing rootfiles (647/663)
Installing iwl7265-firmware (648/663)
Installing ivto-firmware (649/663)
Installing iwl6000g2b-firmware (650/663)
Installing iwl2000-firmware (651/663)
Installing iwl6050-firmware (652/663)
Installing iwl4965-firmware (653/663)
Installing iwl6000g2a-firmware (654/663)
Installing iwl5150-firmware (655/663)
Installing iwl1000-firmware (656/663)
Installing iwl3160-firmware (657/663)
Installing NetworkManager-config-server (658/663)
Installing iwl100-firmware (659/663)
Installing iwl6000-firmware (660/663)
Installing iwl3945-firmware (661/663)
Installing iwl105-firmware (662/663)
Installing iwl7260-firmware (663/663)
Performing post-installation setup tasks

Installing boot loader
.
Performing post-installation setup tasks
.

Configuring installed system
.
Writing network configuration
.
Creating users
.
Configuring addons
.
Generating initramfs
.
Running post-installation scripts

[anaconda1] 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：



```
[ 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)
```



```
Cisco Systems, Inc.  
Configuring and testing memory..
```

```
Cisco IMC  
MAC ADDR :
```

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。



```
Red Hat Enterprise Linux Server 7.3 (Maipo)
Kernel 3.10.0-693.11.6.el7.x86_64 on an x86_64

csp2100a login: admin
Password:
Welcome to the Cisco Cloud Services Platform CLI

TAC support: http://www.cisco.com/tac
Copyright (c) 2015-2017, Cisco Systems, Inc. All rights reserved.
The copyrights to certain works contained in this software are
owned by other third parties and used and distributed under
license. Certain components of this software are licensed under
the GNU General Public License (GPL) version 2.0 or the GNU
Lesser General Public License (LGPL) Version 2.1. A copy of each
such license is available at
http://www.opensource.org/licenses/gpl-2.0.php and
http://www.opensource.org/licenses/lgpl-2.1.php

admin connected from 127.0.0.1 using console on csp2100a
csp2100a# show version

Cisco Cloud Services Platform Software, 2100 Software (CSP-2100), Version 2.2.5 Build:72
TAC Support: http://www.cisco.com/tac
Copyright (c) 2016 by Cisco Systems, Inc
Compiled Friday 30-March-2018 00:18

Linux csp2100a 3.10.0-693.11.6.el7.x86_64 #1 SMP Thu Dec 28 14:23:39 EST 2017 x86_64 x86_64 x86_64 GNU/Linux
Red Hat Enterprise Linux Server release 7.3 (Maipo)
CSP-2100 uptime is 3 minutes, 58 seconds

Cisco UCSC-C220-M4S, Version C220M4.3.0.3c.0.0031170216, processor Intel(R) Xeon(R) CPU E5-2690 v3 @ 2.60GHz
48 CPUs with 58842916 kB / 65756840 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

csp2100a#
```

*****升級完成!!CSP 2100啟動時為2.2.5版!! *****