Procedura di aggiornamento di CSP 2100

Sommario

Introduzione

Questo documento descrive la procedura per eseguire un aggiornamento di Cisco Cloud Services Platform (CSP) 2100.
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Prerequisiti

Requisiti

Cisco raccomanda la conoscenza di Cisco CSP 2100.

Prima di eseguire l'aggiornamento, consultare le note sulla versione.

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

Fare riferimento alla Guida introduttiva,

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

Ulteriori informazioni

- CSP-2100-X1 è C220-M4S
- CSP-2100-X2 è il C240-M4S

Componente utilizzato

Le informazioni fornite in questo documento si basano sulle seguenti versioni software e hardware,

- CSP 2100
- Server UCS serie C220 M4S - Cisco Integrated Management Controller (CIMC)
- Mouse KVM (Keyboard Video Mouse) per mappare il supporto virtuale
- Software CSP 2100 come immagine ISO, da

Le informazioni discusse in questo documento fanno riferimento a dispositivi usati in uno specifico ambiente di emulazione. Su tutti i dispositivi menzionati nel documento la configurazione è stata ripristinata ai valori predefiniti. Se la rete è operativa, valutare attentamente eventuali modifiche o configurazioni. Cisco consiglia di eseguire un backup della configurazione prima di procedere con l'aggiornamento.

Scenario

Questo scenario prevede l'aggiornamento di CSP 2100 dalla **versione 2.2.4** alla **2.2.5**

Procedura

Nota: Durante l'aggiornamento, verificare che la connettività di rete tra la workstation in cui è in esecuzione la console KVM e il CSP-2100 non sia instabile.

PASSAGGIO 1. Utilizzare la console KVM CIMC e controllare il firmware corrente eseguendo il comando **"show version"**.

```
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
```

PASSAGGIO 2. Salvare la configurazione con il comando **"save config-file filename.sav"** (consigliato).
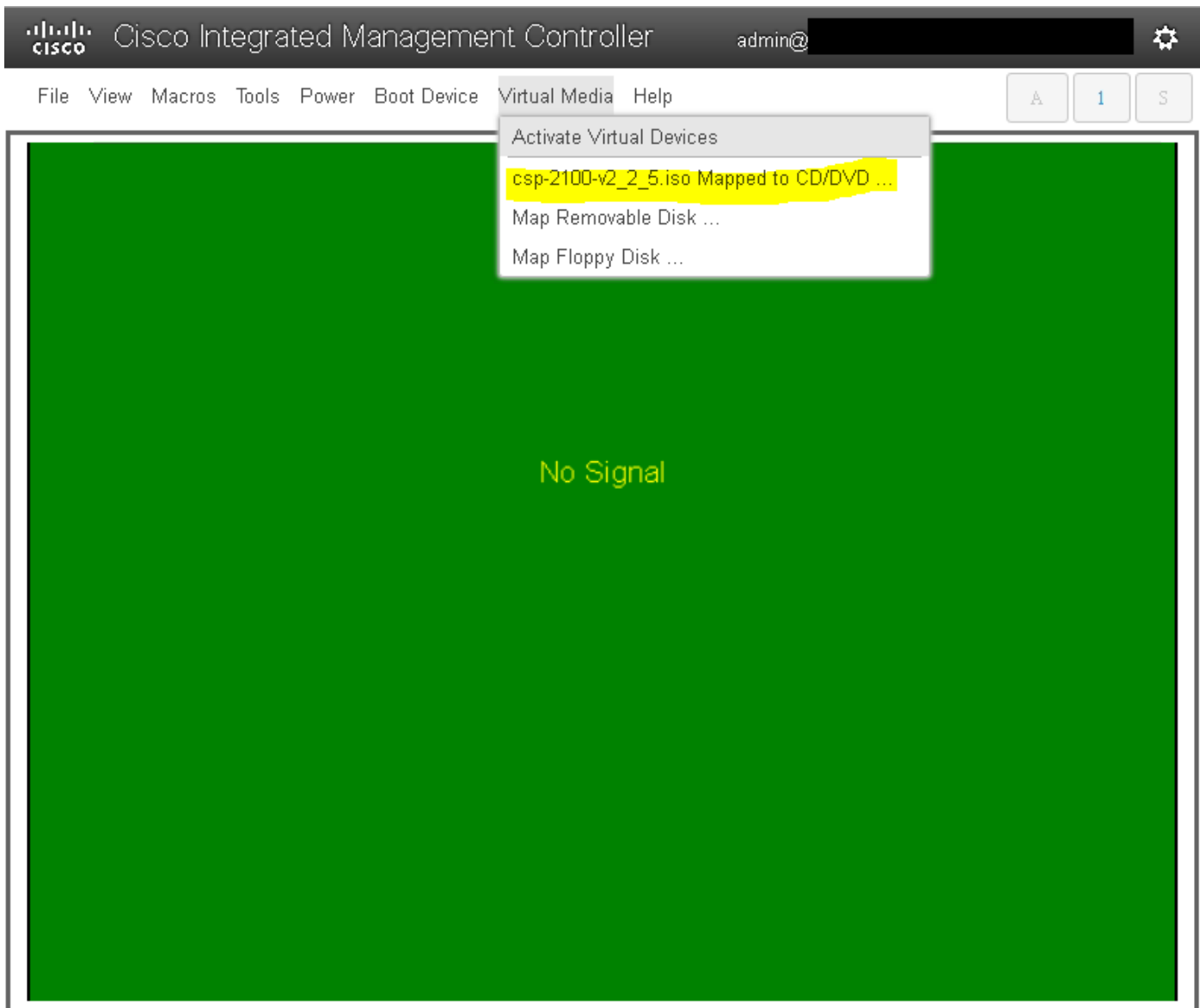
```
csp2100a# save config-file config_backup.sav
```

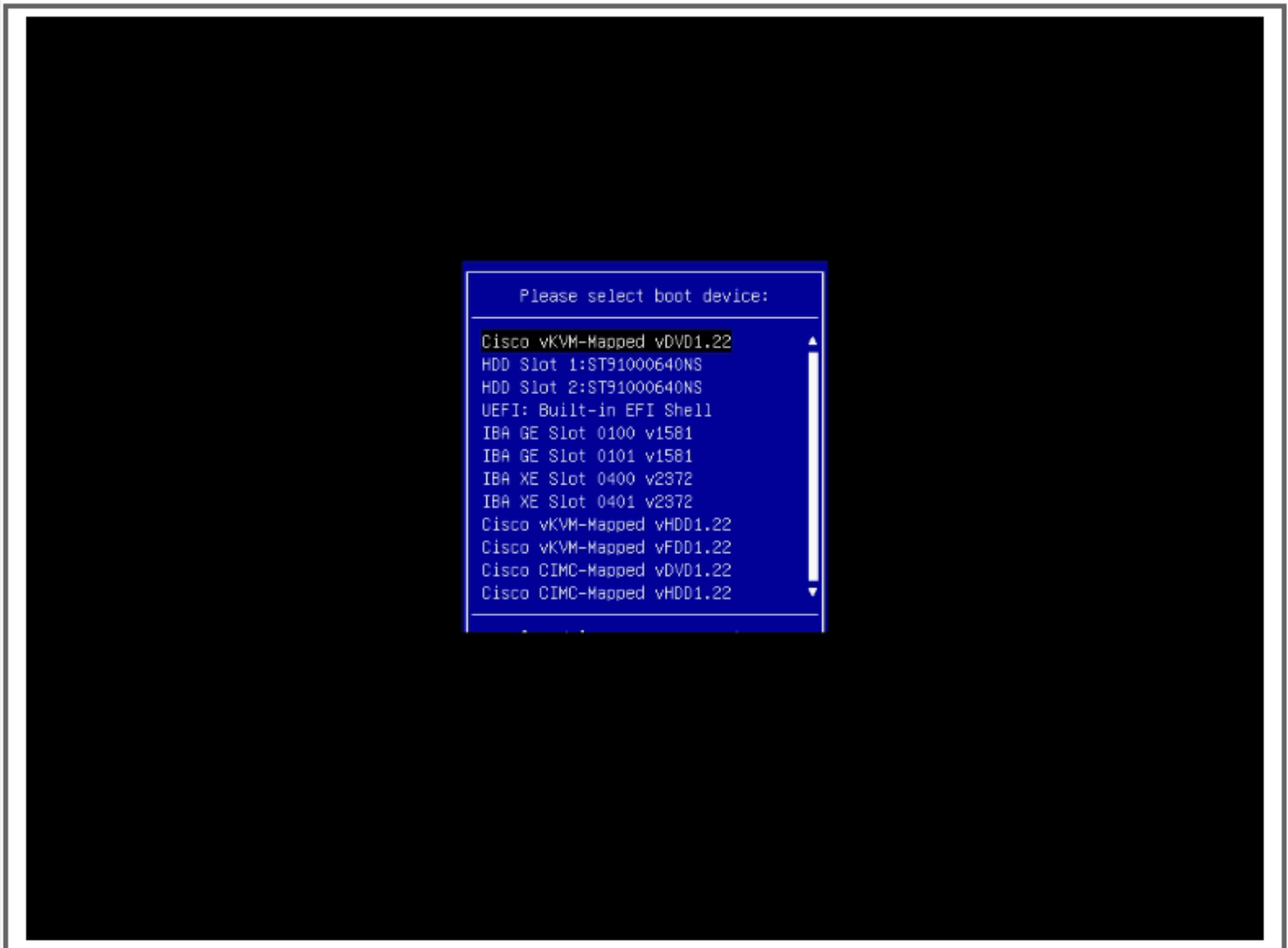PASSAGGIO 3. Verificare che il file **config_backup.sav** sia stato generato

```
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
```

PASSAGGIO 4. Scaricare l'immagine ISO per CSP 2100 dal sito

PASSAGGIO 5. Aprire KVM e mappare l'immagine ISO.

PASSAGGIO 6. **Spegnere e riaccendere il server (riavvio a freddo)** e **premere F6** per accedere a **"Menu di selezione avvio"** e selezionare **"Cisco vKVM-Mapped vDVD1.2"**

PASSAGGIO 7. Una volta avviata l'immagine ISO, selezionare **"Install CSP-2100".** Anche se si seleziona **"Install CSP-2100"**, l'**aggiornamento** verrà comunque eseguito.

PASSAGGIO 8. Il processo di installazione inizia e richiede circa **45-50 minuti** per essere completato, durante i quali il programma di installazione eseguirà **gli script di installazione pre-aggiornamento e post-aggiornamento** per aggiornare CSP 2100 alla nuova versione del firmware.

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

```
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                    2) [x] Time settings
        (English (United States))                   (America/New_York timezone)
 3) [x] Installation source                  4) [x] Software selection
        (Local media)                               (Custom software selected)
 5) [x] Installation Destination             6) [x] 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
.
_

[anaconda] 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 ivtv-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

[anaconda] 1:main* 2:shell  3:log  4:storage-log  5:program-log        Switch tab: Alt+Tab | Help: F1
```

PASSAGGIO 9. Dopo l'**esecuzione degli script di post-installazione**, tutti i servizi vengono arrestati e il server viene riavviato:

File   View   Macros   Tools   Power   Boot Device   Virtual Media   Help

```
[  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)_
```

Verifica

Una volta avviati tutti i servizi, **accedere all'account utente** e **controllare la versione in esecuzione** per confermare lo stato di aggiornamento.

```
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
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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 00:10

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-M3S, Version C220M4.3.0.3c.0.0831170216, processor Intel(R) Xeon(R) CPU E5-2690 v3 @ 2.60GHz
48 CPUs with 58042916 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
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   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#
```

************ Aggiornamento completato! CSP 2100 si avvia con la versione 2.2.5!!   ***************