

# CSP 2100 upgrade-procedure

## Inhoud

[Inleiding](#)

[Voorwaarden](#)

[Vereisten](#)

[Aanvullende informatie](#)

[Gebruikte component](#)

[Scenario](#)

[Procedure](#)

[Verifiëren](#)

## Inleiding

Dit document beschrijft de procedure voor een upgrade van Cisco Cloud Services Platform (CSP) 2100. Bijgedragen door Adhaar Sood, Avinash Shukla, Cisco TAC-engineers.

## Voorwaarden

## Vereisten

Cisco raadt u aan om kennis te hebben van Cisco CSP 2100.

Raadpleeg de opmerkingen over de release vóór de upgrade,

[https://www.cisco.com/c/en/us/td/docs/switches/datacenter/csp\\_2100/release\\_notes/b\\_Cisco\\_CSP\\_2100\\_ReleaseNotes\\_2\\_2\\_5.html](https://www.cisco.com/c/en/us/td/docs/switches/datacenter/csp_2100/release_notes/b_Cisco_CSP_2100_ReleaseNotes_2_2_5.html)

Raadpleeg hier de snelle start-handleiding.

[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](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)

## Aanvullende informatie

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

## Gebruikte component

De informatie in dit document is gebaseerd op deze software- en hardwareversies,

- CSP 2100
- UCS C220 M4S Series-server- Cisco geïntegreerde beheercontroller (CIMC)
- Toetsenbord voor video-muis (KVM) om virtuele media in kaart te brengen
- CSP 2100-software als een ISO-afbeelding, van <https://software.cisco.com/download/home/286286769/type/286289082/release/2.2.5>

De informatie in dit document is gebaseerd op de apparaten in een specifieke laboratoriumomgeving. Alle apparaten die in dit document worden beschreven, hadden een opgeschoonde (standaard)configuratie. Als uw netwerk live is, zorg er dan voor dat u de mogelijke impact van elke verandering of configuratie begrijpt. Cisco raadt aan back-up van de configuratie te maken voordat u doorgaat met de upgrade.

## Scenario

In dit scenario moderniseren we CSP 2100 van **versie 2.2.4** naar **2.2.5**

## Procedure

**Opmerking: Zorg ervoor dat tijdens de upgrade de netwerkconnectiviteit niet opflakert tussen het workstation waar KVM-console naar CSP-2100 draait.**

STAP 1. Gebruik de CIMC KVM-console en controleer de huidige firmware door de opdracht **"Show versie"** uit te voeren.

```
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
```

STAP 2. Sla de configuratie op met opdracht **"save filename.sav"** (Aanbevolen).

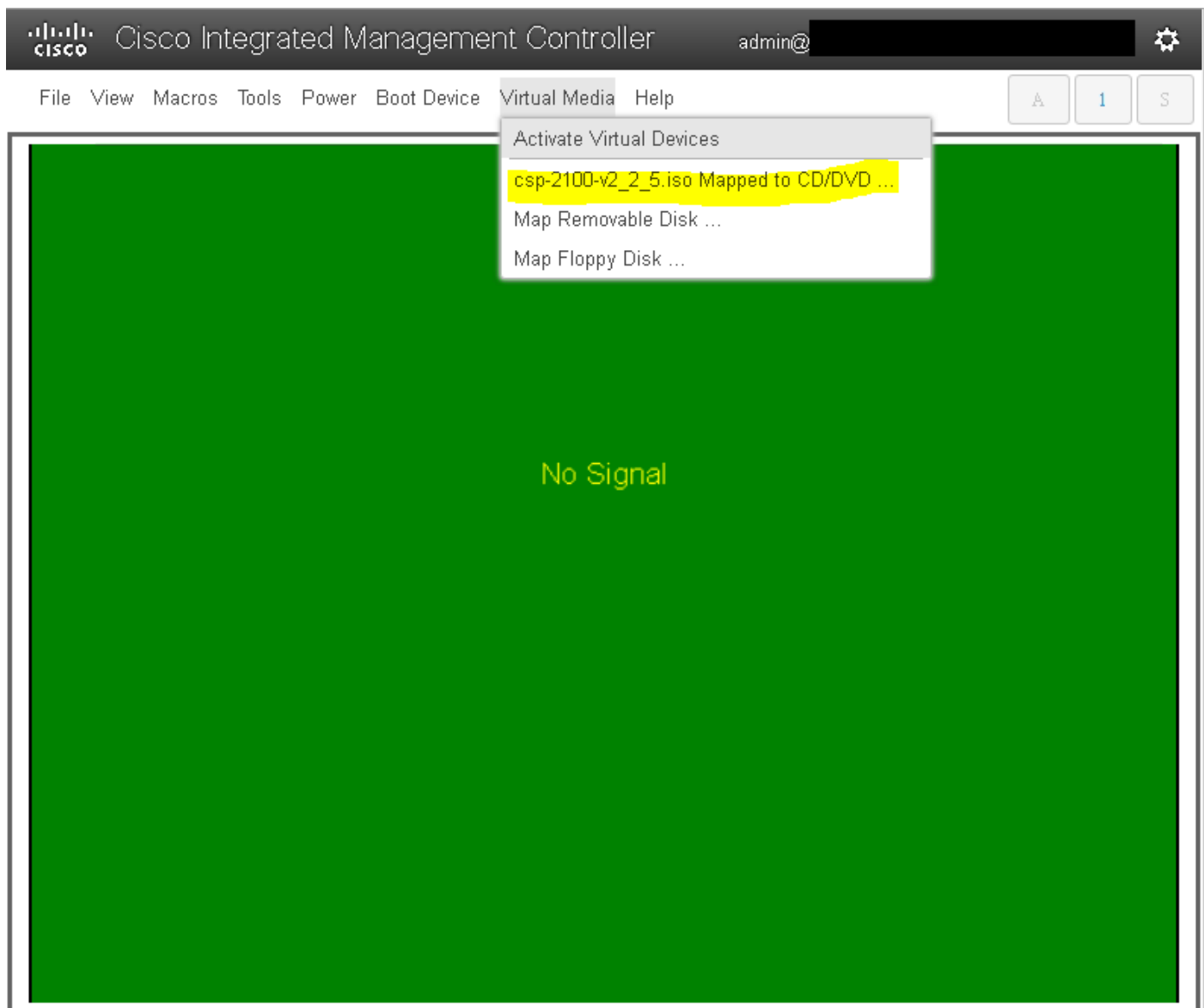
```
csp2100a# save config-file config_backup.sav
```

STAP 3. Controleer het bestand **configuratie\_backup.sav** wordt gegenereerd

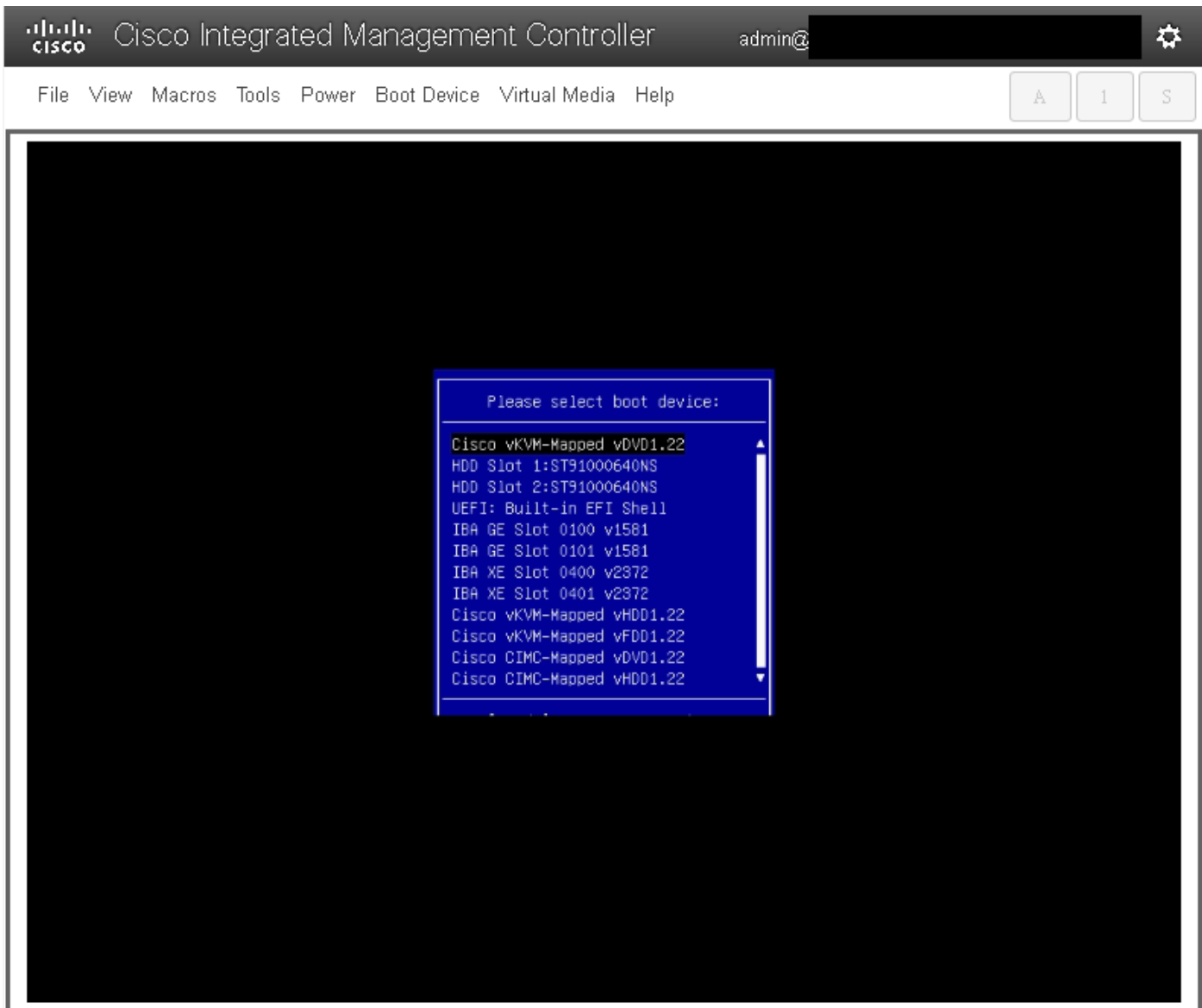
```
csp2100a# show repository
Local storage:
File Name                                Last Modified                                Size
pnuc_utils.py                            Fri Feb 16 13:53:26 2018                    16660
controller-17.2.6-9019.qcow2             Fri Feb  2 04:35:45 2018                   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
csp_show_tech.tar.gz                     Thu Feb  1 17:53:16 2018                   9904003
```

STAP 4. Download het iso-beeld voor CSP 2100 van <https://software.cisco.com/download/home/286286769/type/286289082/release/2.2.5>

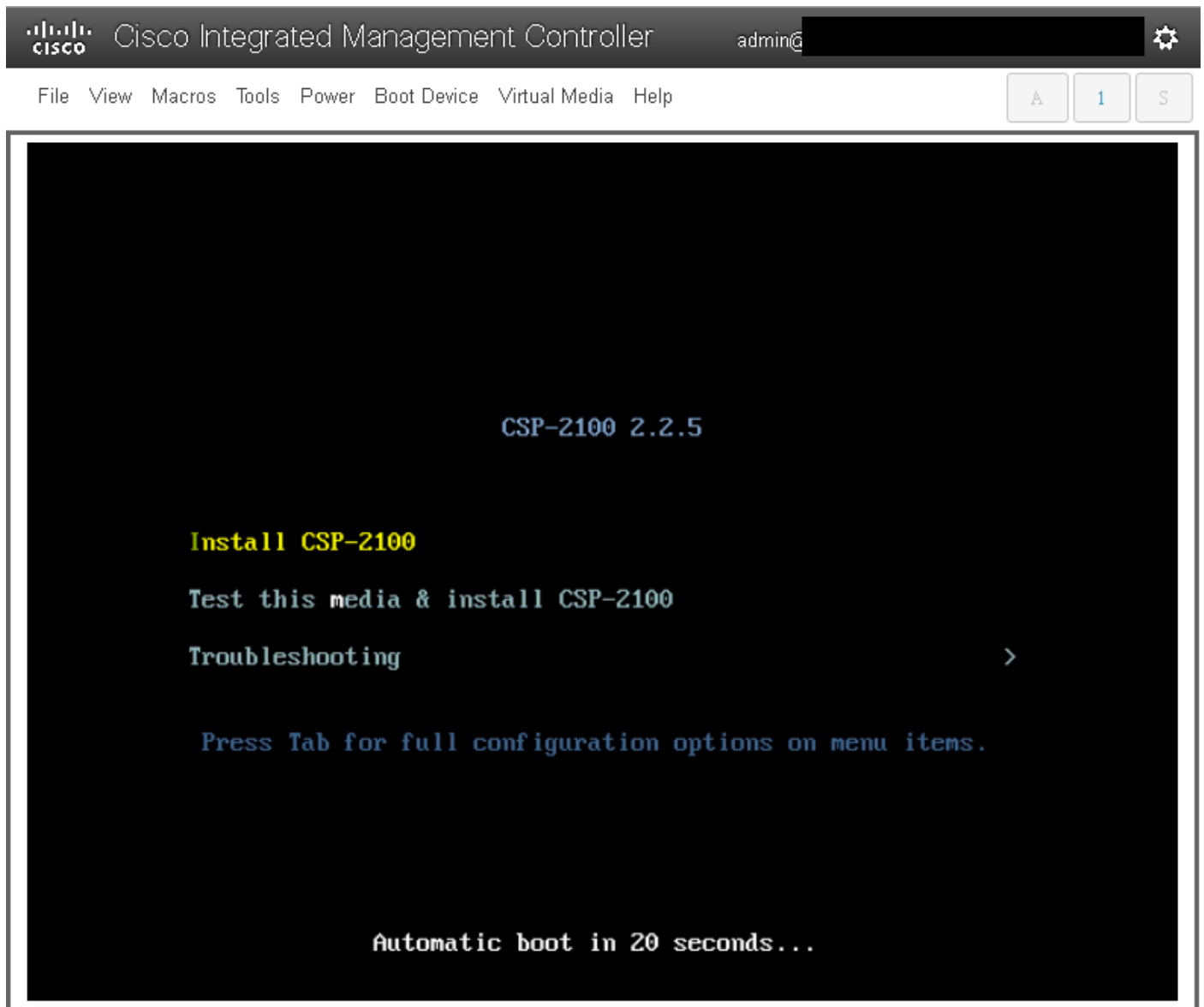
STAP 5. Open KVM en stel de ISO-afbeelding in kaart.



STAP 6. Voedingsprogramma voor de server (koude herstart) en druk op F6 om "Boot Selection Menu" in te voeren en "Cisco vKVM-Mapped vDVD1.2" te selecteren



STAP 7. Selecteer **"CSP-2100 installeren"** als de ISO-afbeelding is opgestart. Hoewel we **"Installeer CSP-2100"** selecteren, zal dit nog steeds een **upgrade** uitvoeren.



STAP 8. Het installatieproces start en duurt ongeveer **45-50 minuten** om te voltooien; de installateur voert **pre-upgrade- en post-upgrade installatiescripts** uit om CSP 2100 naar de nieuwe firmware-versie te verbeteren.



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 UIC because of an automated install
23:11:40 Not asking for UIC because text mode was explicitly asked for in kickstart
23:11:40 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) [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
-

[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 uconfig (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

[anaconda] 1:main* 2:shell 3:log 4:storage-log 5:program-log
```

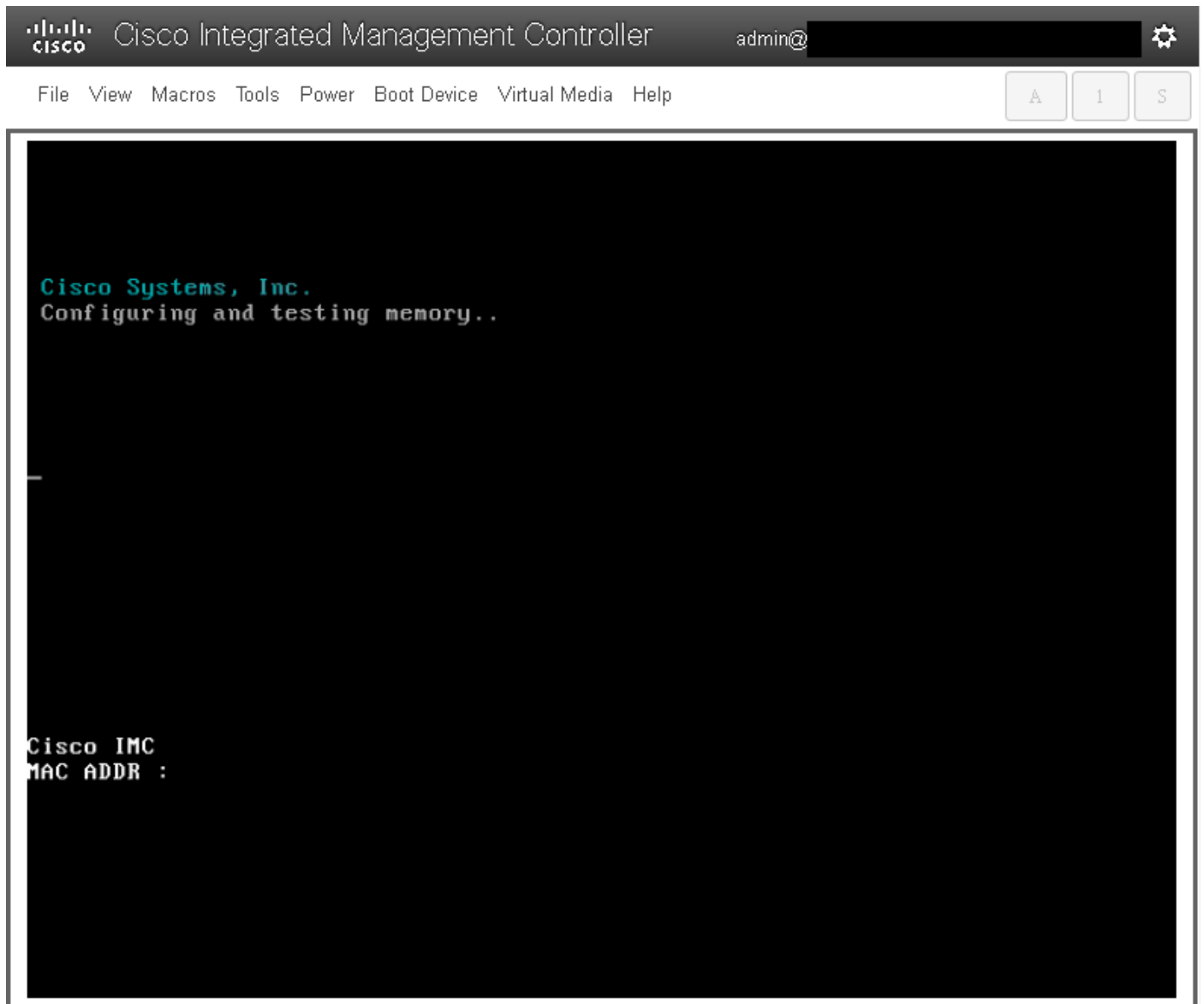
Switch tab: Alt+Tab | Help: F1

STAP 9. Na het uitvoeren van de installatiescripts van Post worden alle services gestopt en servers herstart:





```
[ 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)
```



## Verifiëren

Nadat alle services zijn gestart, **logt u in op de gebruikersaccount** en **controleert u de actieve versie** om de upgradestatus te bevestigen.



```
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 00:10
```

```
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-M5S, Version C220M5.3.0.3c.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#
```

\*\*\*\*\* Upgradeupgrade voltooid! CSP 2100 start met 2.2.5 versie!! \*\*\*\*\*