

Procédure de mise à niveau du CSP 2100

Contenu

[Introduction](#)

[Conditions préalables](#)

[Conditions requises](#)

[Additional Information](#)

[Composant utilisé](#)

[Scénario](#)

[Procédure](#)

[Vérification](#)

Introduction

Ce document décrit la procédure de mise à niveau de Cisco Cloud Services Platform (CSP) 2100. Contribué par Adhaar Sood, Avinash Shukla, ingénieurs du TAC Cisco.

Conditions préalables

Conditions requises

Cisco vous recommande de connaître Cisco CSP 2100.

Veillez consulter les notes de version avant de procéder à la mise à niveau.

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

Reportez-vous au guide de démarrage rapide ici,

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

Additional Information

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

Composant utilisé

Les informations contenues dans ce document sont basées sur les versions de matériel et de logiciel suivantes ,

- CSP 2100
- Serveur UCS série C220 M4S - Cisco Integrated Management Controller (CIMC)
- Souris vidéo clavier (KVM) pour mapper Virtual Media
- Logiciel CSP 2100 en tant qu'image ISO, à partir de

<https://software.cisco.com/download/home/286286769/type/286289082/release/2.2.5>

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. Si votre réseau est actif, assurez-vous de bien comprendre l'impact potentiel de toute modification ou configuration. Cisco recommande de sauvegarder la configuration avant de procéder à la mise à niveau.

Scénario

Dans ce scénario, nous mettons à niveau le CSP 2100 de la version 2.2.4 à 2.2.5

Procédure

Note: Assurez-vous que pendant la mise à niveau, la connectivité réseau ne s'affole pas entre la station de travail sur laquelle la console KVM est exécutée et le CSP-2100.

ÉTAPE 1. Utilisez la console KVM CIMC et vérifiez le micrologiciel en cours en exécutant la commande « **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
```

ÉTAPE 2. Enregistrez la configuration à l'aide de la commande "**save config-file filename.save**" (Recommandé).

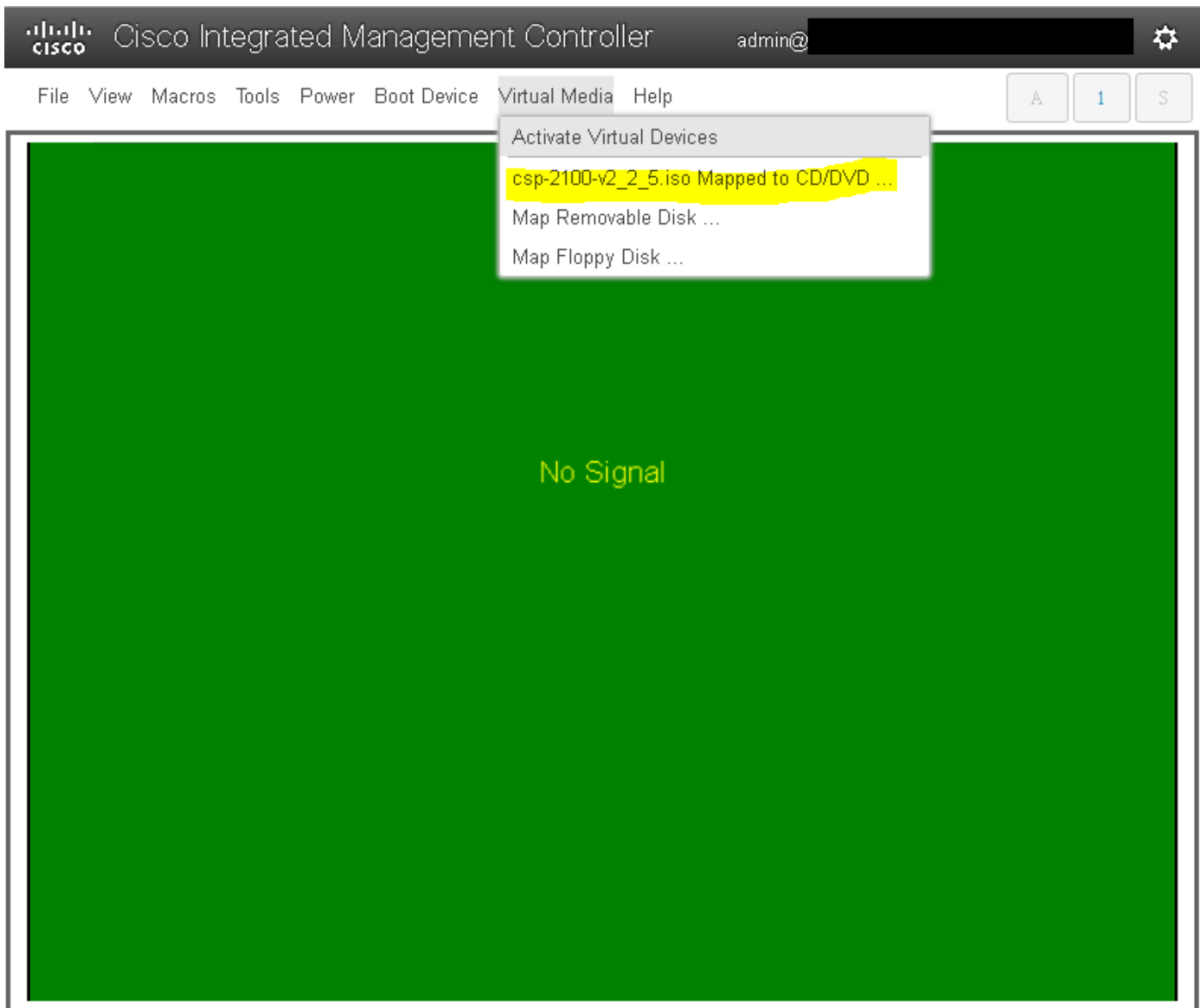
```
csp2100a# save config-file config_backup.sav
```

ÉTAPE 3. Vérifiez que le fichier **config_backup.save** est généré

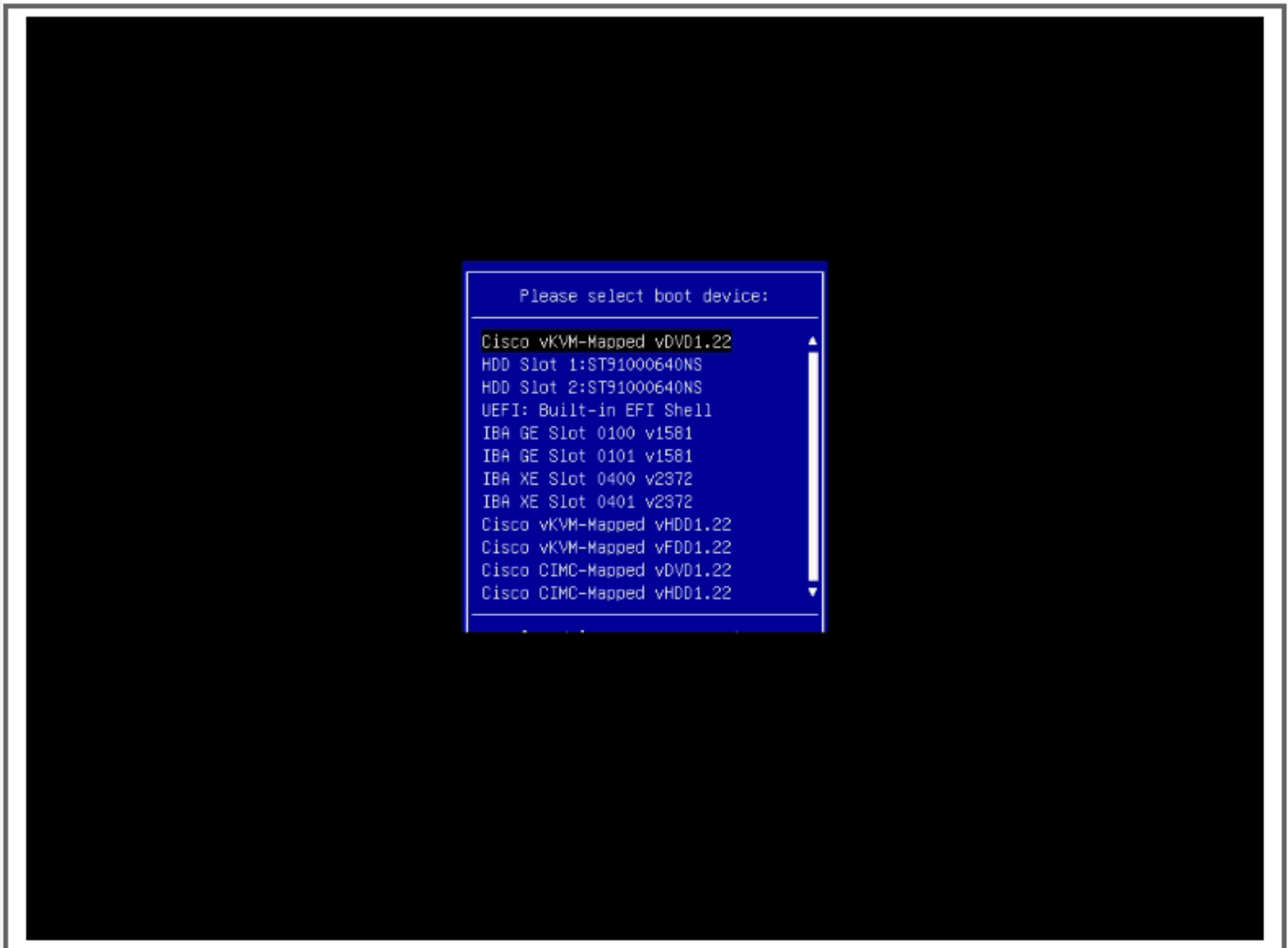
```
csp2100a# show repository
Local storage:
      File Name                Last Modified                Size
-----
pnuc_utils.py                  Fri Feb 16 13:53:26 2018      16660
controller-17.2.6-9019.qcow2   Fri Feb  2 04:35:45 2018     2366544384
config_backup.sav              Thu Apr 19 20:57:20 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
```

ÉTAPE 4. Téléchargez l'image iso pour CSP 2100 à l'adresse <https://software.cisco.com/download/home/286286769/type/286289082/release/2.2.5>

ÉTAPE 5. Ouvrez KVM et mappez l'image ISO.



ÉTAPE 6. Mettez le serveur sous tension (redémarrage à froid) et appuyez sur F6 pour entrer dans « Menu de sélection de démarrage » et sélectionnez « Cisco vKVM-Mapped vDVD1.22 »



ÉTAPE 7. Une fois l'image ISO démarrée, sélectionnez « **Installer CSP-2100** ». Bien que nous sélectionnions « **Installer CSP-2100** », cette opération va toujours effectuer la **mise à niveau**.

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...

ÉTAPE 8. Le processus d'installation démarre et prend environ **45 à 50 minutes** pour se terminer au cours desquelles l'installateur exécutera **des scripts d'installation de pré-mise à niveau et de post-mise à niveau** pour mettre à niveau le CSP 2100 vers la nouvelle version du micrologiciel.



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
```

ÉTAPE 9. Après l'exécution des scripts d'installation, tous les services sont arrêtés et le serveur redémarre :



```
[ 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 :
```

Vérification

Une fois tous les services démarrés, **connectez-vous au compte d'utilisateur** et **vérifiez la version en cours** pour confirmer l'état de la mise à niveau.



```
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, Z100 Software (CSP-Z100), 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-Z100 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#
```

***** Mise à niveau terminée ! CSP 2100 démarre avec la version 2.2.5 ! *****