

Cisco - Mise à jour de firmware



Difficulté : Intermédiaire

Notions : Firmware, switch, cisco

I. Introduction

Cette procédure vise à expliquer le déroulement d'une mise à jour de firmware cisco small business en mode console et en mode web.

II. Préparation

Le firmware peut être téléchargé ici : <https://www.cisco.com/c/en/us/support/index.html>

Pour se connecter en mode console, voir : [Cisco - Se connecter au port console](#)

III. Mettre à jour le firmware

En mode console / ssh

Prérequis : un serveur TFTP accessible par le switch. voir : [Logiciel - tftpd64](#)

Se connecter à la console.

Vérifier la version existante avec la commande :

```
sh ver
```

```
switchddcd4d#sh ver
Active-image: flash://system/images/imagel.bin
Version: 3.0.0.69
MD5 Digest: 7520543df10e96a355ec0d1bd5785e39
Date: 27-Aug-2020
Time: 15:58:09
Inactive-image: flash://system/images/_imagel.bin
Version: 3.0.0.69
MD5 Digest: 7520543df10e96a355ec0d1bd5785e39
Date: 27-Aug-2020
Time: 15:58:09
switchddcd4d#
```

Télécharger l'image présente sur le serveur TFTP.

```
boot system tftp://<ip>/<rep>/<imageName>.bin
```

```
switchddcd4d$168.1.100/image_cbs250_ros_3.3.0.16_release_cisco_signed.bin
04-Jul-2023 11:49:22 %COPY-1-FILECPY: Files Copy - source URL tftp://192.168.1.100/image_cbs250_ros_3.3.0.16_release_cisco_signed.bin destination URL flash://system/images/image_cbs250_ros_3.3.0.16_release_c
[3 %]
```

Attendre la fin du téléchargement.

```
switchddcd4d#$.168.1.100/image_cbs250_ros_3.3.0.16_release_cisco_signed.bin
04-Jul-2023 11:49:22 %COPY-I-FILECPY: Files Copy - source URL tftp://192.168.1.100
co_signed.bin
04-Jul-2023 11:50:48 %COPY-N-TRAP: The copy operation was completed successfully

Copy: 43293665 bytes copied in 00:01:26 [hh:mm:ss]
```

```
switchddcd4d#sh ver
Active-image: flash://system/images/image1.bin
  Version: 3.0.0.69
  MD5 Digest: 7520543df10e96a355ec0dlbd5785e39
  Date: 27-Aug-2020
  Time: 15:58:09
  Inactive after reboot
Inactive-image: flash://system/images/image cbs250 ros 3.3.0.16 release cisco signed.bin
  Version: 3.3.0.16
  MD5 Digest: 7decdf94fd5999afb7b07509896c693b
  Date: 23-Mar-2023
  Time: 11:37:54
  Active after reboot
switchddcd4d#
```

redémarrer le switch avec :

reload

```
switchddcd4d#reload
You haven't saved your changes. Are you sure you want to continue ? (Y/N) [N] Y
This command will reset the whole system and disconnect your current session. Do you want to continue ? (Y/N) [N] Y
Shutting down ...
```

```

*****
***** SYSTEM RESET *****
*****
[14094.938952] reboot: Restarting system

BootROM 1.41
Booting from NAND flash

General initialization - Version: 1.0.0
Serdes initialization - Version: 1.0.2
mvCtrlPexPolaritySet: TWSI Write skipped, leaving PEX polarity in EP mode
PEX: pexIdx 0, detected no link
DDR3 Training Sequence - Ver TIP-1.56.0
mvSysEnvGetTopologyUpdateInfo: skipped Twsi read to enable DDR ECC update
DDR3 Training Sequence - Switching XBAR Window to FastPath Window
Updated Physical Mem size is from 0x20000000 to 10000000
DDR3 Training Sequence - Ended Successfully
BootROM: Image checksum verification PASSED

CBS ROS Booton: Aug 14 2020 19:28:46 ver 3.1.1

Press x to choose XMODEM...
Booting from NAND flash

Running UBOOT...

U-Boot 2013.01 (Aug 14 2020 - 19:28:28) Marvell version: armada-17.06.6 3.0.0.24

CBS EZ1K SKU CBS250-8FP-E-2G, FPGA Version: 24.02

Loading system/images/active-image ...

```

```

-----
Unit number 1
-----

MPD VERSION: MPD_V02_CBS32_002
MCU firmware upgrade. Please DO NOT power off or reboot the device during MCU firmware upgrade.
This might take few minutes.

```

revérifier la version de l'image active après le redémarrage.

```
sh ver
```

```
switchddcd4d#sh ver
Active-image: flash://system/images/image_cbs250_ros_3.3.0.16_release_cisco_signed.bin
Version: 3.3.0.16
MD5 Digest: 7decdf94fd5999afb7b07509896c693b
Date: 23-Mar-2023
Time: 11:37:54
Inactive-image: flash://system/images/imagel.bin
Version: 3.0.0.69
MD5 Digest: 7520543df10e96a355ec0dlbd5785e39
Date: 27-Aug-2020
Time: 15:58:09
```

En mode web

Aller dans '**Administration --> File management --> Firmware Operations**'



CBS250-8FP-E-2G - switchddcd4d

Search

Current search term: firmware

[Administration](#) > [File Management](#) > [Firmware Operations](#)

La version actuelle du firmware est affichée sur la page.

Firmware Operations

Active Firmware File: image_cbs250_ros_3.3.0.16_release_cisco_signed.bin

Active Firmware Version: 3.3.0.16

Operation Type:

- ☒ Update Firmware
- ☐ Backup Firmware
- ☐ Swap Image

Copy Method:

- ☒ HTTP/HTTPS
- ☐ USB



File Name: Aucun fichi...électionné.

Pour mettre à jour, le plus rapide est de Parcourir le pc et sélectionner le firmware.

⚙ File Name:

Parcourir... image_cbs2...signed.bin

Puis faire :

Apply

Attendre la fin du transfert

Processing Data

779776 of 43293665 Bytes Transferred



Après un moment d'attente :

Firmware Operations

✓ Success.

Ensuite, cocher '**Swap Image**', sélectionner la version de l'image.

Active Firmware File:

image1.bin

Active Firmware Version:

3.0.0.69

Operation Type:

☐ Update Firmware

☐ Backup Firmware

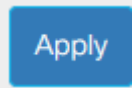
☒ Swap Image

Active Image After Reboot:

image_cbs_ros_3.3.0.16_release_cisco_signed.bin ▼

Active Image Version Number After Reboot: 3.3.0.16

Cliquer sur :



Puis sur '**reboot**'.

Choisir '**immediate**' puis '**reboot**'.



CBS350-8FP-E-2G - swit...

firmware

 cisc4d-

English

Advanced



Reboot

Reboot

Cancel Reboot

Cancel

To reboot the device, click the 'Reboot' button.

Reboot: ☒ Immediate

☐ Date

Jan

01

 Time

00

00

 HH:MM

☐ In

00

 Days

00

 Hours

00

 Minutes

☐ Restore to Factory Defaults

☐ Clear Startup Configuration File

Confirm Reboot

X

 This command will reboot the device and disconnect your current session. Unsaved changes in the configuration will be lost. Do you want to continue?

OK

Cancel

Processing Data

7%

