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Introduction

Ce document décrit une procédure pas à pas de la mise à jour de logiciel en service (ISSU) sur le Commutateurs de la gamme Cisco Catalyst 6500 dans le mode du Système de commutation virtuelle (VSS) avec l'utilisation du superviseur 2T avec double Cisco Catalyst autoguidé 6800 Commutateurs d'instantanément accès (FEX) reliés.

Conditions préalables

Conditions requises

Aucune spécification déterminée n'est requise pour ce document.

[Composants utilisés](#)

Les informations dans ce document sont basées sur le Commutateurs de la gamme Cisco Catalyst 6500 en mode VSS qui exécutent l'engine 2T de superviseur avec un double 6800IA autoguidé relié sur des linecards WS-X6904-40G.

Les informations contenues dans ce document ont été créées à partir des périphériques d'un environnement de laboratoire spécifique. Tous les périphériques utilisés dans ce document ont démarré avec une configuration effacée (par défaut). Si votre réseau est opérationnel, assurez-vous que vous comprenez l'effet potentiel de toute commande.

Procédure de mise à niveau

Première installation

La procédure de mise à niveau est exécutée pour que la version de logiciel 15.1(2)SY de Cisco IOS® relâche 15.1(2)SY1.

Voici les statistiques avant le processus ISSU :

- Le châssis de Catalyst 6500 avec l'ID 1 de commutateur est en activité et le commutateur avec l'ID 2 est de réserve (chaud).
- Chacun des deux châssis sont sur la version du logiciel Cisco IOS 15.1(2)SY.
- Un 6800IA simple qui exécute la version de logiciel 15.0(2)EX2 de Cisco IOS est connecté au VSS sur des linecards WS-X6904-40G à une connexion de double-maison. Le nombre de Port canalisé FEX est 99 et l'ID FEX est 110.

6K1#show mod sw all

```
Switch Number:      1    Role:    Virtual Switch Active
-----
Mod Ports Card Type                               Model                               Serial No.
-----
 2     5  Supervisor Engine 2T 10GE w/ CTS (Acti VS-SUP2T-10G          SAL1632K9P2
 3    20  DCEF2T 4 port 40GE / 16 port 10GE        WS-X6904-40G          SAL1741E4ZA

Mod MAC addresses                               Hw   Fw           Sw           Status
-----
 2  c471.fe7c.de96 to c471.fe7c.de9d  1.3  12.2(50r)SYS 15.1(2)SY  Ok
 3  e02f.6d6a.698c to e02f.6d6a.699f  1.0  12.2(50r)SYL 15.1(2)SY  Ok

Mod  Sub-Module                               Model                               Serial                               Hw   Status
-----
 2  Policy Feature Card 4                       VS-F6K-PFC4                       SAL1637MCQQ                       1.2  Ok
 2  CPU Daughterboard                          VS-F6K-MSFC5                       SAL1637MKX8                       1.4  Ok
 3  Distributed Forwarding Card WS-F6K-DFC4-E  SAL1745FSD6                       1.0  Ok

Mod  Online Diag Status
-----
 2  Pass
 3  Pass

Switch Number:      2    Role:    Virtual Switch Standby
-----
Mod Ports Card Type                               Model                               Serial No.
-----
 2     5  Supervisor Engine 2T 10GE w/ CTS (Hot) VS-SUP2T-10G          SAL1650UC8L
 3    20  DCEF2T 4 port 40GE / 16 port 10GE        WS-X6904-40G          SAL17173QD3

Mod MAC addresses                               Hw   Fw           Sw           Status
-----
 2  2c54.2dc4.2f3a to 2c54.2dc4.2f41  1.4  12.2(50r)SYS 15.1(2)SY  Ok
 3  70ca.9b8f.510c to 70ca.9b8f.511f  1.0  12.2(50r)SYL 15.1(2)SY  Ok

Mod  Sub-Module                               Model                               Serial                               Hw   Status
-----
 2  Policy Feature Card 4                       VS-F6K-PFC4                       SAL1651UG8P                       1.2  Ok
 2  CPU Daughterboard                          VS-F6K-MSFC5                       SAL1651UEBY                       1.5  Ok
 3  Distributed Forwarding Card WS-F6K-DFC4-E  SAL17173QHY                       1.2  Ok

Mod  Online Diag Status
-----
 2  Pass
 3  Pass

Switch Number:      110   Role:                               FEX
-----
```

```

Mod Ports Card Type                               Model                               Serial No.
-----
 1   48 C6800IA 48GE                               C6800IA-48TD                       FOC1736W1A6

Mod MAC addresses                               Hw   Fw           Sw           Status
-----
 1 c025.5cc2.2d00 to c025.5cc2.2d33 0.0   Unknown     15.0(2)EX2   Ok

Mod Online Diag Status
-----
 1 Pass

```

```

6K1#show switch virtual
Switch mode           : Virtual Switch
Virtual switch domain number : 100
Local switch number   : 1
Local switch operational role: Virtual Switch Active
Peer switch number    : 2
Peer switch operational role : Virtual Switch Standby

```

Étapes de mise à jour

1. Assurez-vous que la nouvelle image de Cisco IOS (version de logiciel 15.1(2)SY1 de Cisco IOS) est présente dans le bootdisk et le slavebootdisk.

```

6K1#dir bootdisk: | in s2t54
 5 -rw- 120035816 Jan 23 2014 22:35:12 +00:00
s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
 8 -rw- 119792104 Feb 10 2014 19:42:12 +00:00
s2t54-adventerprisek9-mz.SPA.151-2.SY.bin

```

```

6K1#dir slavebootdisk: | in s2t54
 5 -rw- 120035816 Jan 23 2014 22:26:14 +00:00
s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
 8 -rw- 119792104 Feb 10 2014 19:46:14 +00:00
s2t54-adventerprisek9-mz.SPA.151-2.SY.bin

```

2. (Facultatif) employez ces commandes afin de vérifier que le VSS est prêt à fonctionner la procédure de mise à niveau :
petit groupe de show issu stateshow redundancymodule tout de show moduledétail d'état de l'issu 6K1#show

Le système est configuré pour être mis à jour en mode décalé.
Deux Noeuds de superviseur s'avèrent en ligne.
Résumé : le système sera mis à jour en en tandem mode.

```

Slot = 1/2
RP State = Active
ISSU State = Init
Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12;
Operating Mode = sso
ISSU Sub-State = No Upgrade Operation in Progress
Starting Image = N/A
Target Image = N/A
Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin

```

Slot = 2/2
RP State = Standby
ISSU State = Init
Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12;
Operating Mode = sso
ISSU Sub-State = No Upgrade Operation in Progress
Starting Image = N/A
Target Image = N/A
Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin

This system is Fex-capable

Fex-ID ISSU Status

110 FEX_INIT

6K1#

6K1#**show redundancy**

Redundant System Information :

Available system uptime = 36 minutes
Switchovers system experienced = 0
Standby failures = 0
Last switchover reason = none

Hardware Mode = Duplex
Configured Redundancy Mode = sso
Operating Redundancy Mode = sso
Maintenance Mode = Disabled
Communications = Up

Current Processor Information :

Active Location = slot 1/2
Current Software state = ACTIVE
Uptime in current state = 36 minutes
Image Version = Cisco IOS Software, s2t54 Software
(s2t54-ADVENTERPRISEK9-M),
Version 15.1(2)SY, RELEASE SOFTWARE (fc4)
Technical Support: <http://www.cisco.com/techsupport>
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Wed 04-Sep-13 12:37 by prod_rel_team
BOOT = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12;
CONFIG_FILE =
BOOTLDR =
Configuration register = 0x2102

Peer Processor Information :

Standby Location = slot 2/2
Current Software state = STANDBY HOT
Uptime in current state = 34 minutes
Image Version = Cisco IOS Software, s2t54 Software
(s2t54-ADVENTERPRISEK9-M),
Version 15.1(2)SY, RELEASE SOFTWARE (fc4)
Technical Support: <http://www.cisco.com/techsupport>
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Wed 04-Sep-13 12:37 by prod_rel_team
BOOT = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12;
CONFIG_FILE =
BOOTLDR =

Configuration register = 0x2102

3. Employez la commande d'issu **loadversion** afin de commencer le processus de mise à niveau.

Dans cette étape, le châssis de réserve VSS redémarre, des recharges avec la nouvelle image, et initialise comme châssis de réserve VSS en mode de Redondance SSO, exécutant la nouvelle image. Cette étape est complète quand la configuration de châssis est synchronisée, comme indiqué par le message **réussi par sync en vrac**. Il pourrait prendre plusieurs secondes à quelques minutes pour que la nouvelle image charge et pour le châssis de réserve VSS à la transition au mode SSO.

```
6K1#issu loadversion 1/2 bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
2/2 slavebootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
```

```
System configuration has been modified. Save? [yes/no]: yes
Building configuration...
[OK]
%issu loadversion initiated successfully, upgrade sequence will begin shortly
```

```
6K1#
*Feb 11 05:24:40.091: %ISSU_PROCESS-SW1-3-LOADVERSION: Loadversion sequence
will begin in 60 seconds. Enter 'issu abortversion' to cancel.

*Feb 11 05:25:10.091: %ISSU_PROCESS-SW1-6-LOADVERSION_INFO: Resetting Standby shortly
```

<..output truncated..>

```
*Feb 11 05:29:46.075: %VS_GENERIC-SW1-6-VS_HA_HOT_STANDBY_NOTIFY: Standby switch
is in Hot Standby mode
*Feb 11 05:29:46.079: %HA_CONFIG_SYNC-SW1-6-BULK_CFGSYNC_SUCCEED: Bulk Sync succeeded
*Feb 11 05:29:46.079: %RF-SW1-5-RF_TERMINAL_STATE: Terminal state reached for (SSO)
```

```
*Feb 11 05:30:25.091: %ISSU_PROCESS-SW1-3-LOADVERSION: Loadversion has completed.
Please issue the 'issu runversion' command after all modules come online.
```

```
!
! Boot variable for standby should point to new Image in "show issu state detail" output.
```

```
6K1#show issu state det
```

```
The system is configured to be upgraded in staggered mode.
2 supervisor nodes are found to be online.
Summary: an in-tandem upgrade is in progress.
```

```
Slot = 1/2
RP State = Active
ISSU State = Load Version
Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12;
Operating Mode = sso
ISSU Sub-State = Load Version Completed
Starting Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin
Target Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin
```

```
Slot = 2/2
RP State = Standby
ISSU State = Load Version
Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12;
bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12
```

```
Operating Mode = sso
ISSU Sub-State = Load Version Completed
Starting Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin
  Target Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
```

This system is Fex-capable

Fex-ID ISSU Status

110 FEX_UPGRADE_INIT

6K1#show redundancy states

```
my state = 13 -ACTIVE
peer state = 8 -STANDBY HOT
  Mode = Duplex
  Unit = Secondary
  Unit ID = 18
```

```
Redundancy Mode (Operational) = sso
Redundancy Mode (Configured) = sso
Redundancy State = sso
  Maintenance Mode = Disabled
  Manual Swact = enabled
Communications = Up
```

```
client count = 144
client_notification_TMR = 30000 milliseconds
  keep_alive TMR = 9000 milliseconds
  keep_alive count = 1
  keep_alive threshold = 19
  RF debug mask = 0x0
```

4. Quand le châssis de réserve VSS exécute avec succès la nouvelle image dans l'état de Redondance SSO et tous les linecards sur le châssis de réserve VSS sont hauts et en ligne, sélectionnez la commande d'issu **runversion** afin de forcer un basculement. Le châssis de réserve mis à jour VSS succède comme nouveau châssis actif, exécutant la nouvelle image. Les recharges autrefois actives de châssis et initialise comme nouveau châssis de réserve VSS en mode SSO, exécutant la vieille image (au cas où la mise à niveau de logiciel devrait être abandonnée et la vieille image être restaurée). Cette étape est complète quand la configuration de châssis est synchronisée, comme indiqué par le message **réussi par sync en vrac**.

runversion 6K1#issu

Cette commande rechargera l'unité d'active.

```
Proceed ? [confirm]
```

```
%issu runversion initiated successfully
```

```
*Feb 11 05:35:19.035: %RF-SW1-5-RF_RELOAD: Self reload. Reason: Admin ISSU
```

```
runversion CLI
```

```
<..output truncated..>
```

```
Feb 11 05:35:21.411: %SYS-SW1-5-SWITCHOVER: Switchover requested by Exec.
```

```
Reload Reason: Admin ISSU runversion CLI.
```

```
Resetting .....
```

```
!  
!Standby chassis now becomes active. Below logs are from new active switch.  
!  
Initializing as Virtual Switch ACTIVE processor  
. .  
*Feb 11 05:37:36.107: %PFREDUN-SW2-6-ACTIVE: Standby initializing for SSO mode  
  
*Feb 11 05:39:56.563: %HA_CONFIG_SYNC-SW2-6-BULK_CFGSYNC_SUCCEED: Bulk Sync succeeded  
*Feb 11 05:39:56.563: %RF-SW2-5-RF_TERMINAL_STATE: Terminal state reached for (SSO)  
*Feb 11 05:39:56.555: %PFREDUN-SW1_STBY-6-STANDBY: Ready for SSO mode in Default Domain
```

```
! Wait till all the modules and Fex Port-channel 99 links come up  
!  
*Feb 11 05:41:28.467: %ISSU_PROCESS-SW2-6-RUNVERSION_INFO: Runversion has completed.  
Please issue the 'issu acceptversion' command  
Feb 11 05:43:13.034: %LINK-3-UPDOWN: Interface TenGigabitEthernet1/0/2, changed  
state to up (FEX-110)  
Feb 11 05:43:14.033: %LINEPROTO-5-UPDOWN: Line protocol on Interface  
TenGigabitEthernet1/0/2, changed state to up (FEX-110)  
*Feb 11 05:43:14.491: %SATMGR-SW2-5-FABRIC_PORT_UP: SDP up on interface Te1/3/5,  
connected to FEX 110, uplink 52  
*Feb 11 05:43:14.491: %SATMGR-SW2-5-DUAL_ACTIVE_DETECT_CAPABLE: channel group 99  
is now dual-active detection capable
```

```
6K1#show issu state
```

```
The system is configured to be upgraded in staggered mode.  
2 supervisor nodes are found to be online.  
Summary: an in-tandem upgrade is in progress.
```

```
Slot = 2/2  
RP State = Active  
ISSU State = Run Version  
Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12;  
bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12
```

```
Slot = 1/2  
RP State = Standby  
ISSU State = Run Version  
Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12;
```

```
This system is Fex-capable
```

```
Fex-ID ISSU Status
```

```
110 FEX_UPGRADE_INIT
```

```
6K1#show fex 110 detail
```

```
FEX: 110 Description: FEX0110 state: online  
FEX version: 15.0(2)EX2  
Extender Model: C6800IA-48TD, Extender Serial: FOC1736W1A6  
FCP ready: yes  
Image Version Check: enforced  
Fabric Portchannel Ports: 2  
Fabric port for control traffic: Te2/3/5  
Fabric interface state:  
Po99 - Interface Up.
```

```
Te1/3/5    - Interface Up.      state: bound
Te2/3/5    - Interface Up.      state: bound
```

5. Employez la commande d'issu **acceptversion** afin d'arrêter le temporisateur de repositionnement. C'est nécessaire parce que si le temporisateur expire, les recharges mises à jour de châssis et retourne à la version de logiciel précédente.

```
6K1#issu acceptversion
% Rollback timer stopped. Please issue the 'issu commitversion' command.
```

6. Employez le **fex d'issu runversion toute la** commande afin de commencer le téléchargement de l'image et la procédure de mise à niveau sur le FEX (6800IA). Le FEX déclenche le téléchargement de l'image du nouveau lot de logiciels du Supervisor2T (ici version de logiciel 15.2(2)SY1 de Cisco IOS). Si vous utilisez des piles FEX, le maître est responsable pour extraire l'image à ses membres. Passages d'un serveur TFTP chez 192.1.1.1.

```
6K1#issu runversion fex all

% Successfully initiated 'runversion fex' for Fex IDs: 110.
```

Use 'show issu state' for more information.

```
6K1#show issu state det
The system is configured to be upgraded in staggered mode.
2 supervisor nodes are found to be online.
Summary: an in-tandem upgrade is in progress.

      Slot = 2/2
      RP State = Active
      ISSU State = Run Version
      Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12;bootdisk:
s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12
      Operating Mode = sso
      ISSU Sub-State = Run Version Completed
      Starting Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin
      Target Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
      Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin

      Slot = 1/2
      RP State = Standby
      ISSU State = Run Version
      Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12;
Operating Mode = sso
      ISSU Sub-State = Run Version Completed
      Starting Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin
      Target Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
      Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin
```

This system is Fex-capable

```
Fex-ID    ISSU Status
-----
110      FEX_UPGRADE_IN_PROGRESS
```

Following are the logs on from FEX 6800IA console:

!

!192.1.1.1 is the tftp running on FEX controller i.e. VSS active and vlan 1012 is the control vlan associated with fex.

!

FEX-110#

Loading **c6800ia-universalk9-mz.150-2.EX4.bin** from **192.1.1.1**

(via **Vlan1012**): !!!

[OK - 15493122 bytes]

examining image...

extracting info (112 bytes)

extracting c6800ia-universalk9-mz.150-2.EX4/info (792 bytes)

extracting info (112 bytes)

Stacking Version Number: 1.55

System Type: 0x00000000
Ios Image File Size: 0x00EB5200
Total Image File Size: 0x00EC6A00
Minimum Dram required: 0x08000000
Image Suffix: universalk9-150-2.EX4
Image Directory: c6800ia-universalk9-mz.150-2.EX4
Image Name: c6800ia-universalk9-mz.150-2.EX4.bin
Image Feature: IP|LAYER_2|SSH|3DES|MIN_DRAM_MEG=128
FRU Module Version: No FRU Version Specified

Old image for switch 1: flash:/c6800ia-universalk9-mz.150-2.EX2

Old image will be left alone

Extracting images from archive into flash...

! The console will be waiting for about 5-10 minutes after the above line.

<output truncated>

New software image installed in flash:/c6800ia-universalk9-mz.150-2.EX4

Following are the logs from the 6500 Active supervisor:

*Feb 11 06:00:30.387: %SATMGR-SW2-5-ONLINE: FEX 110 online
*Feb 11 06:00:30.391: %SATMGR-SW2-5-FEX_MODULE_ONLINE: FEX 110, module 1 online
*Feb 11 06:00:30.395: %OIR-SW2-6-INSREM: Switch 110 Physical Slot 1 - Module
Type LINE_CARD inserted
*Feb 11 06:00:30.951: %SATMGR-SW2-5-FABRIC_PORT_UP: SDP up on interface Te2/3/5,
connected to FEX 110, uplink 51
***Feb 11 06:00:30.951: %SATMGR-SW2-5-DUAL_ACTIVE_DETECT_CAPABLE: channel group
99 is now dual-active detection capable**
*Feb 11 06:01:00.983: %OIR-SW2-6-SP_INSCARD: Card inserted in Switch_number =
110, physical slot 1, interfaces are now online

FEX-110#show ver | in image

System image file is "flash:/c6800ia-universalk9-mz.150-2.EX4/
c6800ia-universalk9-mz.150-2.EX4.bin"

6K1#show issu state det

The system is configured to be upgraded in staggered mode.
2 supervisor nodes are found to be online.
Summary: an in-tandem upgrade is in progress.

```
Slot = 2/2
RP State = Active
ISSU State = Run Version
Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12;
bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12
Operating Mode = sso
ISSU Sub-State = Run Version Completed
Starting Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin
Target Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
```

```
Slot = 1/2
RP State = Standby
ISSU State = Run Version
Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12;
Operating Mode = sso
ISSU Sub-State = Run Version Completed
Starting Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin
Target Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin
Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin
```

This system is Fex-capable

```
Fex-ID    ISSU Status

110      FEX_UPGRADE_COMPLETE
```

7. Afin de continuer, sélectionnez la commande d'**issu commitversion** d'améliorer le châssis de réserve VSS et de se terminer l'ordre ISSU. Le châssis de réserve VSS redémarre, des recharges avec la nouvelle image, et initialise comme châssis de réserve VSS dans l'état de Redondance SSO, exécutant la nouvelle image. Cette étape est complète quand la configuration de châssis est synchronisée, comme indiqué par le message **réussi par sync en vrac**, et tous les linecards sur le nouveau VSS-standby sont hauts et en ligne.

```
6K1#issu commitversion
%issu commitversion initiated successfully, upgrade sequence will continue shortly

6K1#
*Feb 11 06:05:30.839: %ISSU_PROCESS-SW2-3-COMMITVERSION: issu commitversion;
Commitversion sequence will begin in 60 seconds. Enter 'issu abortversion'
to cancel.
*Feb 11 06:06:00.839: %ISSU_PROCESS-SW2-6-COMMITVERSION_INFO:
Resetting Standby shortly

*Feb 11 06:08:48.571: %PFREDUN-SW2-6-ACTIVE: Standby initializing for SSO mode
*Feb 11 06:09:01.163: %ISSU_PROCESS-SW2-6-COMMITVERSION_INFO: Standby has
come online, wait for terminal state
.
.
*Feb 11 06:10:41.267: %VS_GENERIC-SW2-6-VS_HA_HOT_STANDBY_NOTIFY: Standby switch
is in Hot Standby mode
*Feb 11 06:10:41.271: %HA_CONFIG_SYNC-SW2-6-BULK_CFGSYNC_SUCCEEDED:
Bulk Sync succeeded
*Feb 11 06:10:41.271: %RF-SW2-5-RF_TERMINAL_STATE: Terminal state reached for (SSO)

*Feb 11 06:10:46.403: %ISSU_PROCESS-SW2-6-COMMITVERSION_INFO: Upgrade has completed,
updating boot configuration
```

!

!Boot variable now displays both new and old image in ?show issu state detail? output.

!

6K1#show issu state detail

The system is configured to be upgraded in staggered mode.

2 supervisor nodes are found to be online.

Summary: an in-tandem upgrade is in progress.

Slot = 2/2

RP State = Active

ISSU State = Commit Version

Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12;

bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12

Operating Mode = sso

ISSU Sub-State = Commit Version completed, waiting for system to settle

Starting Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin

Target Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin

Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin

Slot = 1/2

RP State = Standby

ISSU State = Commit Version

Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12;

bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12

Operating Mode = sso

ISSU Sub-State = Commit Version completed, waiting for system to settle

Starting Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin

Target Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin

Current Version = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin

This system is Fex-capable

Fex-ID ISSU Status

110 FEX_UPGRADE_COMPLETE

6K1#show redundancy

Redundant System Information :

Available system uptime = 1 hour, 28 minutes

Switchovers system experienced = 1

Standby failures = 1

Last switchover reason = user forced

Hardware Mode = Duplex

Configured Redundancy Mode = sso

Operating Redundancy Mode = sso

Maintenance Mode = Disabled

Communications = Up

Current Processor Information :

Active Location = slot 2/2

Current Software state = ACTIVE

Uptime in current state = 36 minutes

Image Version = Cisco IOS Software, s2t54 Software

```

(s2t54-ADVENTERPRISEK9-M), Version 15.1(2)SY1, RELEASE SOFTWARE (fc4)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Thu 28-Nov-13 12:58 by prod_rel_team
          BOOT = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12;
bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12
          CONFIG_FILE =
          BOOTLDR =
Configuration register = 0x2102

Peer Processor Information :
-----
          Standby Location = slot 1/2
Current Software state = STANDBY HOT
Uptime in current state = 1 minute
          Image Version = Cisco IOS Software, s2t54 Software (s2t54-ADVENTERPRISEK9-
M),
Version 15.1(2)SY1, RELEASE SOFTWARE (fc4)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2013 by Cisco Systems, Inc.
Compiled Thu 28-Nov-13 12:58 by prod_rel_team
          BOOT = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12;
bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.bin,12
          CONFIG_FILE =
          BOOTLDR =
Configuration register = 0x2102

```

Vérifiez

Afin de vérifier que la mise à jour était réussie, utilisez ces commandes :

- petit groupe de show issu state
- show redundancy
- commutateur tout de show module

Voici l'état actuel après le processus ISSU :

- 6500 châssis avec l'ID 2 de commutateur sont en activité et le commutateur avec l'ID 1 est de réserve (chaud). Ils sont maintenant sur la version de logiciel 15.1(2)SY1 de Cisco IOS.
- Le client instantané d'accès (6800IA) exécute maintenant la version du logiciel Cisco IOS 15.0(2)EX4.

```
6K1#show mod swi all
```

```

Switch Number:      1   Role:  Virtual Switch Standby
-----
Mod Ports Card Type                               Model                               Serial No.
-----
 2     5  Supervisor Engine 2T 10GE w/ CTS (Hot) VS-SUP2T-10G          SAL1632K9P2
 3    20  DCEF2T 4 port 40GE / 16 port 10GE      WS-X6904-40G          SAL1741E4ZA

Mod MAC addresses                               Hw   Fw           Sw           Status
-----
 2  c471.fe7c.de96 to c471.fe7c.de9d  1.3  12.2(50r)SYS 15.1(2)SY1  Ok
 3  e02f.6d6a.698c to e02f.6d6a.699f  1.0  12.2(50r)SYL 15.1(2)SY1  Ok

Mod  Sub-Module                               Model                               Serial                               Hw   Status
-----
 2  Policy Feature Card 4                       VS-F6K-PFC4                         SAL1637MCQQ                       1.2  Ok
 2  CPU Daughterboard                           VS-F6K-MSFC5                         SAL1637MKX8                       1.4  Ok
 3  Distributed Forwarding Card WS-F6K-DFC4-E                       SAL1745FSD6                       1.0  Ok

```

Mod Online Diag Status

2 Pass
3 Pass

Switch Number: 2 Role: Virtual Switch Active

Mod	Ports	Card Type	Model	Serial No.
2	5	Supervisor Engine 2T 10GE w/ CTS (Acti	VS-SUP2T-10G	SAL1650UC8L
3	20	DCEF2T 4 port 40GE / 16 port 10GE	WS-X6904-40G	SAL17173QD3

Mod	MAC addresses	Hw	Fw	Sw	Status
2	2c54.2dc4.2f3a to 2c54.2dc4.2f41	1.4	12.2(50r)SYS	15.1(2)SY1	Ok
3	70ca.9b8f.510c to 70ca.9b8f.511f	1.0	12.2(50r)SYL	15.1(2)SY1	Ok

Mod	Sub-Module	Model	Serial	Hw	Status
2	Policy Feature Card 4	VS-F6K-PFC4	SAL1651UG8P	1.2	Ok
2	CPU Daughterboard	VS-F6K-MSFC5	SAL1651UEBY	1.5	Ok
3	Distributed Forwarding Card	WS-F6K-DFC4-E	SAL17173QHY	1.2	Ok

Mod Online Diag Status

2 Pass
3 Pass

Switch Number: 110 Role: FEX

Mod	Ports	Card Type	Model	Serial No.
1	48	C6800IA 48GE	C6800IA-48TD	FOC1736W1A6

Mod	MAC addresses	Hw	Fw	Sw	Status
1	c025.5cc2.2d00 to c025.5cc2.2d33	0.0	Unknown	15.0(2)EX4	Ok

Mod Online Diag Status

1 Pass

6K1#

6K1#show switch virtual

Switch mode : Virtual Switch
Virtual switch domain number : 100
Local switch number : 2
Local switch operational role: Virtual Switch Active
Peer switch number : 1
Peer switch operational role : Virtual Switch Standby