Procedimiento de actualización ISSU del switch Catalyst serie 6500 con 6800IA (FEX) conectado

Contenido

[Introducción](#)
[Prerequisites](#)
[Requirements](#)
[Componentes Utilizados](#)
[Procedimiento de actualización](#)
[Configuración inicial](#)
[Pasos de actualización](#)
[Verificación](#)

Introducción

Este documento describe un procedimiento de actualización de software en funcionamiento (ISSU) paso a paso en los switches Catalyst de Cisco serie 6500 en el modo de Virtual Switching System (VSS) con el uso de Supervisor 2T con switches de acceso instantáneo (FEX) Cisco Catalyst 6800 de doble conexión conectados.

Prerequisites

Requirements

No hay requisitos específicos para este documento.

Componentes Utilizados

La información de este documento se basa en los switches Catalyst de Cisco serie 6500 en modo VSS que ejecutan Supervisor Engine 2T con un 6800IA de doble reposición conectado en tarjetas de línea WS-X6904-40G.

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. If your network is live, make sure that you understand the potential impact of any command.

Procedimiento de actualización

Configuración inicial

El procedimiento de actualización se realiza para Cisco IOS® Software Release 15.1(2)SY a Release 15.1(2)SY1.

Estas son las estadísticas anteriores al proceso ISSU:

- El chasis Catalyst 6500 con ID de switch 1 está activo y el switch con ID 2 está en espera (en caliente).
- Ambos chasis están activos en Cisco IOS Software Release 15.1(2)SY.
- Un único 6800IA que ejecuta Cisco IOS Software Release 15.0(2)EX2 está conectado a VSS en tarjetas de línea WS-X6904-40G con una conexión doméstica dual. El número de canal de puerto FEX es 99 y el ID de FEX es 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
```

Pasos de actualización

1. Asegúrese de que la nueva imagen de Cisco IOS (Cisco IOS Software Release 15.1(2)SY1) esté presente en el disco de inicio y en el disco de inicio eslavebootdisk.

```
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. (Opcional) Utilice estos comandos para verificar que el VSS esté listo para ejecutar el procedimiento de actualización:
   show issu state detailshow redundancyshow module switch all6K1#show issu state detail

   El sistema está configurado para actualizarse en modo escalonado.
   Se ha encontrado que dos nodos supervisores están en línea.
   Resumen el sistema se actualizará en modo de tándem.

```
        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. Utilice el comando **issu loadversion** para iniciar el proceso de upgrade.

   En este paso, el chasis VSS en espera se reinicia, se recarga con la nueva imagen y se inicializa como el chasis VSS en espera en el modo de redundancia SSO, ejecutando la nueva imagen. Este paso se completa cuando se sincroniza la configuración del chasis, como indica el mensaje **Bulk sync exitosamente**. La carga de la nueva imagen puede tardar entre varios segundos y algunos minutos, y el chasis VSS en espera puede pasar al modo 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. Cuando el chasis en espera VSS ejecuta correctamente la nueva imagen en el estado de redundancia SSO y todas las tarjetas de línea en el chasis en espera VSS están activas y en línea, ingrese el **comando issu runversion** para forzar un switchover. El chasis VSS en espera actualizado toma el relevo como el nuevo chasis activo, ejecutando la nueva imagen. El chasis anteriormente activo se recarga e inicializa como el nuevo chasis VSS en espera en modo SSO, ejecutando la imagen antigua (en caso de que deba anularse la actualización del software y restaurarse la imagen antigua). Este paso se completa cuando se sincroniza la configuración del chasis, como indica el mensaje **Bulk sync exitosamente**.

   6K1#**issu runversion**

   Este comando recargará la unidad activa.

```
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. Utilice el comando **issu acceptversion** para detener el Temporizador de Reversión. Esto es necesario porque si el temporizador caduca, el chasis actualizado se recarga y vuelve a la versión de software anterior.

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

6. Utilice el comando **issu runversion fex all** para iniciar el procedimiento de descarga y actualización de imágenes en el FEX (6800IA). El FEX activa la descarga de la imagen del nuevo paquete de software del Supervisor2T (aquí Cisco IOS Software Release 15.2(2)SY1). Si utiliza pilas FEX, el maestro es responsable de extraer la imagen a sus miembros. Un servidor TFTP se ejecuta en 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. Para continuar, ingrese el comando **issu commitversion** para actualizar el chasis en espera de VSS y completar la secuencia ISSU. El chasis VSS en espera se reinicia, se recarga con la nueva imagen y se inicializa como el chasis VSS en espera en el estado de redundancia SSO, ejecutando la nueva imagen. Este paso se completa cuando se sincroniza la configuración del chasis, como indica el mensaje **Bulk sync exitosa**, y todas las tarjetas de línea en el nuevo VSS-Standby están activas y en línea.

```
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_SUCCEED:
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.SY.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.SY.bin,12
                CONFIG_FILE =
                    BOOTLDR =
       Configuration register = 0x2102
```

Verificación

Para verificar que la actualización fue exitosa, utilice estos comandos:

- show issu state detail
- show redundancy
- show module switch all

Este es el estado actual después del proceso ISSU:

- El chasis 6500 con ID de switch 2 está activo y el switch con ID 1 está en espera (en caliente). Ahora se encuentran en la versión 15.1(2)SY1 del software del IOS de Cisco.
- El cliente de acceso instantáneo (6800IA) ahora ejecuta Cisco IOS Software Release 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
```