

إصدار Catalyst 6500 Series Switch ISSU 6800ia (FEX) لي صوت عم

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المقدمة

يصف هذا المستند إجراء ترقية البرامج أثناء الخدمة (ISSU) خطوة بخطوة على محولات Cisco Catalyst 6500 Series Switches في وضع نظام التحويل الظاهري (VSS) باستخدام Supervisor 2T مع إرفاق محولات Cisco Catalyst 6800 Instant Access (FEX) مزدوجة المسار.

المتطلبات الأساسية

المتطلبات

لا توجد متطلبات خاصة لهذا المستند.

المكونات المستخدمة

أسست المعلومة في هذا وثيقة على cisco مادة حفازة 6500 sery مفتاح في VSS أسلوب أن يركض مشرف محرك 2T مع dual-home 6800ia يربط على WS-X6904-40G خط.

تم إنشاء المعلومات الواردة في هذا المستند من الأجهزة الموجودة في بيئة معملية خاصة. بدأت جميع الأجهزة المستخدمة في هذا المستند بتكوين ممسوح (افتراضي). إذا كانت شبكتك مباشرة، فتأكد من فهمك للتأثير المحتمل لأي أمر.

إجراء الترقية

الإعداد الأولي

يتم تنفيذ إجراء الترقية لبرنامج Cisco IOS®، الإصدار SY(2)15.1 إلى الإصدار SY1(2)15.1.

فيما يلي الإحصاءات قبل عملية ISSU:

- يكون هيكل Catalyst 6500 ذو معرف المحول 1 نشطا، كما أن المحول ذو المعرف 2 يكون في وضع الاستعداد (HOT).
- كلا الهيكلين فوق برنامج Cisco IOS Software، الإصدار SY(2)15.1.
- يتصل الإصدار EX2(2)15.0 أحادي الطراز 6800ia الذي يعمل ببرنامج Cisco IOS Software ببطاقة VSS على سلاسل WS-X6904-40G مع اتصال مزدوج المنزل. يكون رقم قناة منفذ FEX 99 ومعرف FEX 110.

```
6K1#show mod sw all
Switch Number:      1      Role:  Virtual Switch Active
-----
.Mod Ports Card Type                               Model                               Serial No
-----
Supervisor Engine 2T 10GE w/ CTS (Active) VS-SUP2T-10G      SAL1632K9P2  5  2
DCEF2T 4 port 40GE / 16 port 10GE      WS-X6904-40G      SAL1741E4ZA  20  3

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

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

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

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

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

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

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

```

Switch Number: 110 Role: FEX
-----
.Mod Ports Card Type Model Serial No
-----
C6800IA 48GE C6800IA-48TD FOC1736W1A6 48 1
Mod MAC addresses Hw Fw Sw Status
-----
c025.5cc2.2d00 to c025.5cc2.2d33 0.0 Unknown 15.0(2)EX2 Ok 1
Mod Online Diag Status
-----
Pass 1

```

```

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

```

خطوات الترقية

1. تأكد من وجود صورة Cisco IOS الجديدة (الإصدار 15.1(2)SY1 من برنامج Cisco IOS Software) في قرص التمهيد ومحرك الأقراص المؤقت.

```

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

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

```

2. (إختياري) أستخدم هذا أمر in order to دقت أن VSS جاهز أن يركض التحسين إجراء: إظهار تفاصيل الحالة إظهار التكرار 6K1#show module switch all6K1#show issu دولة تفصيل

تم تكوين النظام ليتم ترقبته في وضع متدرج.
تم العثور على عقدي مشرف على أنهما متصلتان عبر الإنترنت.
ملخص: ستم ترقية النظام في وضع الترادف.

```

Slot = 1/2
RP State = Active
ISSU State = Init
;Boot Variable = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.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

FEX_INIT 110

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>

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;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

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```
;BOOT = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY.bin,12
      = CONFIG_FILE
      = BOOTLDR
      Configuration register = 0x2102
```

3. أستخدم الأمر **issu loadversion** لبدء عملية الترقية.

في هذه الخطوة، تتم إعادة تمهيد هيكل VSS الاحتياطي، وإعادة تحميله باستخدام الصورة الجديدة، وتهيئته كهيكل VSS الاحتياطي في وضع تكرار SSO، مما يؤدي إلى تشغيل الصورة الجديدة. اكتملت هذه الخطوة عند مزامنة تكوين الهيكل، كما هو موضح بواسطة رسالة نجاح المزامنة المجمعة. قد يستغرق تحميل الصورة الجديدة عدة ثوانٍ إلى بضعة دقائق، كما قد يتطلب انتقال هيكل الاستعداد VSS إلى وضع SSO.

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

```
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
      .supervisor nodes are found to be online 2
      .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
FEX_UPGRADE_INIT    110
```

```
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. عند تشغيل هيكل الاستعداد VSS بنجاح للصورة الجديدة في حالة تكرار SSO وتكون جميع الخطوات موجودة على هيكل الاستعداد VSS قيد التشغيل ومتصلة، فأدخل الأمر **issu running version** لإجبار تبديل. يأخذ الهيكل الاحتياطي VSS الذي تمت تربيته دور الهيكل النشط الجديد، مشغلا الصورة الجديدة. ويقوم الهيكل النشط سابقا بإعادة التحميل والتهيئة كهيكل VSS الاحتياطي الجديد في وضع SSO، وتشغيل الصورة القديمة (في حالة الحاجة إلى إجهاض ترقية البرنامج واستعادة الصورة القديمة). اكتملت هذه الخطوة عند مزامنة تكوين الهيكل، كما هو موضح بواسطة رسالة نجاح المزامنة المجمعة.

```
6K1#issu runversion
```

سيقوم هذا الأمر بإعادة تحميل الوحدة النشطة.

```
[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_SUCCEEDED: 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

.supervisor nodes are found to be online 2

.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

FEX_UPGRADE_INIT 110

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

أستخدم الأمر **issu acceptedVersion** لإيقاف مؤقت التراجع. وهذا ضروري لأنه إذا انتهت صلاحية المؤقت، 5. فإن الهيكل الذي تمت ترقيته يعيد التحميل ويرتد إلى إصدار البرنامج السابق.

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

أستخدم الأمر **issu runversion fex all** لبدء إجراء تنزيل الصورة وترقيتها على (FEX 6800ia). يشير ال FEX إلى الصورة تنزيل من الحزمة برمجية جديد من المشرف 2T (هنا cisco ios برمجية إطلاق SY1(2)15.2). إذا كنت تستخدم مكدرات FEX، فإن المدير مسؤول عن استخراج الصورة إلى أعضائها. يعمل خادم TFTP على 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
.supervisor nodes are found to be online 2
.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

FEX_UPGRADE_IN_PROGRESS 110

:Following are the logs on from FEX 6800IA console

!

is the tftp running on FEX controller i.e. VSS active and vlan 1012 is the 192.1.1.1!
.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*
is now dual-active detection capable 99
= Feb 11 06:01:00.983: %OIR-SW2-6-SP_INSCARD: Card inserted in Switch number*
physical slot 1, interfaces are now online ,110

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
.supervisor nodes are found to be online 2

.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.SY1.bin,12
Operating Mode = sso
ISSU Sub-State = Run Version Completed
Starting Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.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.SY1.bin,12
Operating Mode = sso
ISSU Sub-State = Run Version Completed
Starting Image = bootdisk:s2t54-adventerprisek9-mz.SPA.151-2.SY1.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
FEX_UPGRADE_COMPLETE	110

7. دخلت in order to باشرت، ال **issu** لجنة أمر أن يحسن ال VSS الاستعداد هيكل وأتمت ال **issu** تسلسل. يتم إعادة تمهيد الهيكل الاحتياطي VSS، وإعادة تحميله باستخدام الصورة الجديدة، وتهيئته كهيكل VSS الاحتياطي في حالة تكرار SSO، مما يعمل على تشغيل الصورة الجديدة. تكون هذه الخطوة كاملة عند مزامنة تكوين الهيكل، كما هو موضح بواسطة الرسالة الناجحة للمزامنة المجمعة، وتكون جميع الأسطر الموجودة في وضع الاستعداد VSS الجديد في وضع الاستعداد.

```
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
.supervisor nodes are found to be online 2
.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

FEX_UPGRADE_COMPLETE 110

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

```

التحقق من الصحة

للتحقق من نجاح الترقية، أستخدم الأوامر التالية:

- إظهار تفاصيل الحالة
- إظهار التكرار
- **show module switch all**

فيما يلي الحالة الحالية بعد عملية ISSU:

- ينشط هيكل الطراز 6500 المزود بمعرف المحول 2، كما أن المحول المزود بمعرف 1 يكون في وضع الاستعداد (HOT). وهم الآن على برنامج Cisco IOS الإصدار 15.1(2)SY1.
- يعمل الآن عميل الوصول الفوري (6800ia) ببرنامج Cisco IOS Software، الإصدار 15.0(2)EX4.

```

6K1#show mod swi all
Switch Number:      1   Role:  Virtual Switch Standby
-----
.Mod Ports Card Type                               Model                               Serial No
-----
Supervisor Engine 2T 10GE w/ CTS (Hot) VS-SUP2T-10G      SAL1632K9P2  5    2
DCEF2T 4 port 40GE / 16 port 10GE      WS-X6904-40G  SAL1741E4ZA  20   3

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

Mod Sub-Module                               Model                               Serial          Hw          Status
-----

```

Policy Feature Card 4	VS-F6K-PFC4	SAL1637MCQQ	1.2	Ok	2
CPU Daughterboard	VS-F6K-MSFC5	SAL1637MKX8	1.4	Ok	2
Distributed Forwarding Card	WS-F6K-DFC4-E	SAL1745FSD6	1.0	Ok	3

Mod Online Diag Status

 Pass 2
 Pass 3

Switch Number: 2 Role: Virtual Switch Active

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

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

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

Mod Online Diag Status

 Pass 2
 Pass 3

Switch Number: 110 Role: FEX

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

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

Mod Online Diag Status

 Pass 1

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

```

ةمچرتل هذه لوج

ةللأل تاي نقتل نمة ومة مادختساب دن تسمل اذة Cisco تمةرت
ملاعلاء انء مء مء نء مء دختسمل معد و تمة مء دقتل ةر شبل او
امك ةق قء نوك ت نل ةللأل ةمچرت لصف أن ةظحال مء ءء. ةصاأل مء تءل ب
Cisco ةلخت. فرتمة مچرت مء مء قء ةل ةل ةل ةل ةل ةل ةل ةل ةل ةل
ىل إءءء اد ءوچرلاب ةصوء و تءمچرتل هذه ةقء نء اهءل وئس م
Systems (رفوتم طبارل) ةل صأل ةل ءل ءل ءل ءل دن تسمل