

Catalyst 9000 Series وCatalyst 3850 تال د ب م ى ل ع ISSU ذي ف ن ت

تايوت حمل

[عمدقملا](#)

[ISSU وه ام](#)

[رادصالا معد ة ف و ف ص م و م و ع د م ل ا ة ي س ا س ا ل ا ة م ظ ن ا ل ا](#)

[ISSU ل ب ق ة ي س ا س ا ل ا ت ا ب ل ط ت م ل ا](#)

[1. ل ا ل ا ل ا ز م ل ا ر ا د ص ا ل ن م ق ق ح ت ل ا ل ا](#)

[2. د ي ه م ت ل ا ا ع ض و ن م ق ق ح ت](#)

[3. \(ق ت ق و م ل ا ة ر ك ا ذ ل ا \) Flash ة ر ك ا ذ ي ل ع ة ي ف ا ك ة ر ف و ت م ة ر ك ا ذ ك ا ن ه ت ن ا ك ا ذ ا م م ق ق ح ت](#)

[4. SSO ع ض و ي ف ت ا ل و ح م ل ا د و ح و ن م ق ق ح ت ل ا ل ا](#)

[5. ي ئ ا ق ل ت ل ا د ي ه م ت ل ا ن ي ك م ت م ت ا ذ ا م ق ق ح ت](#)

[6. ت ي ب ث ت ل ا ة ل ا ح و ة ي ل ا ل ا ISSU ة ل ا ح ن م ق ق ح ت](#)

[7. ا ه ض ي ف خ ت / ا ه ت ي ق ر ت م ت ي س ي ت ل ا ة د ي د ج ل ا ة ر و ص ل ا خ س ن ا](#)

[ة ي ل ع ف ة ي ق ر ت - ISSU ل م ع ر ي س ت ا ي ل م ع](#)

[ة د ج ا و ة و ط خ ب ل م ع ر ي س](#)

[ت ا و ط خ ث ا ل ت و ذ ل م ع ل ا ر ي س](#)

[ISSU ل ة ي ع ج ر م ل ا ة م ئ ا ق ل ا ر ش ن](#)

[ISSU ل ش ف ي ل ع ا ر ج ا](#)

[ISSU ض ا ه ج ا](#)

[Clean ISSU ة ي ا ل و](#)

عمدقملا

ى ل ع (ISSU) عم د خ ل ا ا ن ث ا ج م ا ر ب ل ا ة ي ق ر ت ا ر ج ا ل ة ن م ص ت م ل ا ت ا و ط خ ل ا د ن ت س م ل ا ا ذ ه ف ص ي Catalyst 9000 series و Catalyst 3850 تال د ب م.

ISSU وه ام

ا ن ث ا م ز ا ه ج ي ل ع ي ر خ ا ة ر و ص ي ل ا ة ر و ص ة ي ق ر ت ب م و ق ت ة ي ل م ع ي ه عم د خ ل ا ا ن ث ا ج م ا ر ب ل ا ة ي ق ر ت ي ل و و س م (ISSU) ة ك ر ت ش م ل ا ت ا م د خ ل ا معد ة د ح و د ع ا س ت . م ز ح ل ا ه ي ج و ت ة د ا ع ا ي ف ة ك ب ش ل ا ر ا ر م ت س ا ي ف ر و ص ل ا ة ي ق ر ت م ت . ج م ا ر ب ل ل ة ي ق ر ت ا ر ج ا د ن ع ة ك ب ش ل ا ع ا ط ق ن ا ب ن ج ت ي ل ع ة ك ب ش ل ا ي د ر ف ل ك ش ب ة م ز ح ل ك ة ي ق ر ت م ت ت ش ح ، ت ي ب ث ت ل ا ع ض و

م ع د ت ي ت ل ا Catalyst 9000 series و Catalyst 3850 ة ل س ل س ل ا ع ي م ج ي ل ع ISSU معد م ت ي ن ي ئ ا ن ث ن ي ف ر ش م عم Catalyst 9400 / 9600 ل ق ت س م ل ا ل ك ي ه ل ا ي ل ع ا ض ي ا و Stackwise-Virtual


SVL م ع د ي . د ح ا و ي ر ه ا ط ل و ح م ن ي و ك ت ل ا عم ن ي ل ص ت م ن ي ل و ح م (SVL) StackWise Virtual ن م ص ت ي عم د خ ل ا ا ن ث ا ج م ا ر ب ل ا ت ا ي ق ر ت .

رادصإا معد ةفوفصمو ةم وعدملا ةيساسألا ةمظنألا

ققحت .لعللاب ISSU معدت ةصنملا تناك اذا امم ققحت ، ISSU مادختساب ةعباتملا لبق
ىلع روثعلل نكمي .فدهل زمرلاو ةيلالحل ةيجمربلل تاميلعتل نيب ISSU معد نم اضيا
انه ISSU قفاوت ةفوفصمو ةم وعدملا ةيساسألا ةمظنألا لوح عضولا ليصافت

[تارادصإا نيب ISSU معد](#)

ISSU لبق ةيساسألا تابلطتملا

 يتل Cisco Catalyst 9500 switches تالوحم ىلع دننتملا اذه يف لاثملا دمتعي :ةظالم
لقتسملا لكيهلا ىلع تاوطخلل قبطنت . StackWise-Virtual اهلأ ىلع اهنىوكت مت
Catalyst 3850 / Catalyst ةزهجالل اضياو جودزملل فرشملا تاكرحم عم Cat9400 / Cat9600
StackWise-Virtual ةزهجالل اهنىوكت مت يتل 9000
يف راركتللا ىلإ (ISSU) ةقاطلا معد ةدحوجاتحت ، ةيلعمللا ءانثأ ةمزح يا نادقف بنجتل
ثودحل ارظنو .ءاوسلا ىلع دادعتسالا ةزهجالل ةطشنللا ةزهجالل هاجت كب ةصاخلا دقعلل
ككتكيش يف يلال رفاوتل نامضل امهنيب ليديت ءارجل مزليو ليحت ةداعل ةيلمع

1. يلالحلا زمرلا رادصإا نم ققحتللا

<#root>

```
C9500#show version | in IOS XE
```

```
Cisco IOS XE Software, Version 16.09.02
```

2. ديهمتلا عضو نم ققحت

تيتبثتلا عضو يف StackWise Virtual يف نيلوحملا الك ديهمت مت اذا طقف ISSU معد متي

<#root>

```
C9500#show ver | in INSTALL
```

```
* 1 50 C9500-40X 16.9.2 CAT9K_IOSXE INSTALL
  2 50 C9500-40X 16.9.2 CAT9K_IOSXE INSTALL
```

On Catalyst 9400, the above output is not available. Check if the switch booted from packages.conf file

```
C9400#show version | in System image
System image file is "flash:packages.conf"
```

ن اذه لثم أطخ تيأر عي طتسي تي نأ ISSU. مع دم تي ال ،ةم زح عضو ي ف لك يه ل دي همت لاج ي ف بولسأ ةم زح ي ف ضكري نوكي حات فم ل امدن ع issu ضكري نأ تنأ لواج ي

```
<#root>
```

```
*Nov 13 14:55:57.338: %INSTALL-5-INSTALL_START_INFO: Chassis 1 R1/0: install_engine: Started install on  
ERROR: install_add_activate_commit: One-Shot ISSU operation is
```

```
not supported in bundle boot mode
```

```
FAILED: install_add_activate_commit exit(1) Tue Nov 13 14:56:03 UTC 2018
```

3. ةرك اذ ل Flash ةرك اذ ي ل ع ةي فاك ةرفو تم ةرك اذ ك انه تن اك اذ ا م ق قحت (ة ق و م ل)

```
<#root>
```

```
C9500#dir flash: | in free
```

```
11353194496 bytes total (8565174272 bytes free)
```

```
C9500#dir stby-flash: | in free
```

```
11353980928 bytes total (8566865920 bytes free)
```

في ظنت ب مق .ةدي دج ةروص عي سوت ل Flash ي ف ل ق أ ل ي ل ع تي اباج ي ج 1 ةحاس م ك ي دل نأ دك أت install remove رم أ ل ا مدخت ساو ةي فاك ةحاس م دوجو مدع ة لاج ي ف ةم ي دق ل تي ب ثت ل ا ت ا ف ل م inactive.

4. SSO عضو ي ف تال و ح م ل ا دوجو ن م ق قحت ل ا

```
<#root>
```

```
C9500#show redundancy
```

```
Redundant System Information :
```

```
-----  
Available system uptime = 4 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
Current Software state = ACTIVE
Uptime in current state = 30 minutes

Image Version = Cisco IOS Software [Fuji], Catalyst L3 Switch Software (CAT9K_IOSXE),
Technical Support: <http://www.cisco.com/techsupport>
Copyright (c) 1986-2018 by Cisco Systems, Inc.
Compiled Mon 05-Nov-18 19:32 by mcpre

BOOT = flash:packages.conf;

CONFIG_FILE =
Configuration register = 0x102

Peer Processor Information :

Standby Location = slot 2
Current Software state = STANDBY HOT
Uptime in current state = 26 minutes

Image Version = Cisco IOS Software [Fuji], Catalyst L3 Switch Software (CAT9K_IOSXE),
Technical Support: <http://www.cisco.com/techsupport>
Copyright (c) 1986-2018 by Cisco Systems, Inc.
Compiled Mon 05-Nov-18 19:32 by mcpre

BOOT = flash:packages.conf;

CONFIG_FILE =
Configuration register = 0x102

5. يئاق لئال ديه مت لئال ني كمت مت اذا ام ق قحت

<#root>

C9500#show boot system

Switch 1

Current Boot Variables:
BOOT variable = flash:packages.conf;

Boot Variables on next reload:
BOOT variable = flash:packages.conf;

Manual Boot = no

<<<<< Manual Boot should be set to "no"

Enable Break = no
Boot Mode = DEVICE
iPXE Timeout = 0

Switch 2

Current Boot Variables:
BOOT variable = flash:packages.conf;

Boot Variables on next reload:
BOOT variable = flash:packages.conf;

Manual Boot = no

Enable Break = no
Boot Mode = DEVICE
iPXE Timeout = 0

حضورم وه امك كلذ ريغيغت نكمي، يئاقللتال ديهمتال نيكمت متي مل اذا

<#root>

c9500(config)#no boot manual

تثبتتال ةلاحو ةلحلال ISSU ةلاح نم ققحت 6.



!ادج ةمهم ةوطخال هذه :ةظحالم

<#root>

C9500#show issu state detail

--- Starting local lock acquisition on switch 1 ---
Finished local lock acquisition on switch 1

No ISSU operation is in progress <<<<<<<< If see anything else, abort ISSU before proceeding.

Check on how to manually abort ISSU.

C9500#show install summary

[Switch 1 2] Installed Package(s) Information:
State (St): I - Inactive, U - Activated & Uncommitted,
C - Activated & Committed, D - Deactivated & Uncommitted

```
-----  
Type St  Filename/Version  
-----  
IMG   C    16.9.2.0.2433      <<<<<<<< State should be Activated & Committed for current version alone.
```

If not clear install state before proceeding. Check on how to clear install state.

```
-----  
Auto abort timer: inactive  
-----
```

7. اهضيفخت / اهتيفقرت متيس يتلا ةديجلال ةروصلال خسنا

طشنال فرشملا وأ (StackWise ةلاحي في) طشنال لكيلهلا ىل طوق ةروصلال خسن في فك في (Cat9400 Dual SUP ةلاحي في).

<#root>

C9500#copy tftp: bootflash:

Address or name of remote host []? X.X.X.X
Source filename []? cat9k_iosxe.16.09.02.SPA.bin
Destination filename [cat9k_iosxe.16.09.02.SPA.bin]?

ةيلعفة ةيقرت - ISSU لمع ريس تايلمع

ةيلعفال ةيقرتلا في ةعباتملا كنكمي، ةيساسال ابللمعلا عيمع نم ققحتلا درجمبو
ةجردملا قرتلا ىدل مادختساو:

- (تانايبلال عاجرتسا معددي الو طوق ةدحاو ةوطخ) ةدحاو ةوطخب لمع ريس
- (لشفال ةلاحي عاجرتسا معددي و تاوطخ ثالث نمضتي) تاوطخ ثالث وذل لمعلا ريس

ةدحاو ةوطخب لمع ريس

نيسحتلا في دعاسي و طوق ةدحاو ةوطخ اذه لمعلا ريس نمضتي.

على إعدادات ملاب مق. أيئقلتة قورتلا ذيفنت متي شح عجاتلا كنكمي ال: عظهارم
عجاتلا يف بغرت تنك اذا ثالثلا تاوطخال يذ لمعال ريس.

<#root>

// This example has SW-2 as Active and Sw-1 as Standby before starting ISSU

C9500#install add file flash:cat9k_iosxe.16.09.02.SPA.bin activate issu commit

install_add_activate_commit: START Fri Feb 8 10:07:51 jst 2019

*Feb 8 10:07:52.456 jst: %INSTALL-5-INSTALL_START_INFO: Switch 2 R0/0: install_engine: Started install

--- Starting initial file syncing ---

[2]: Copying flash:cat9k_iosxe.16.09.02.SPA.bin from switch 2 to switch 1

[1]: Finished copying to switch 1

Info: Finished copying flash:cat9k_iosxe.16.09.02.SPA.bin to the selected switch(es)

Finished initial file syncing

--- Starting Add ---
Performing Add on all members
 [1] Add package(s) on switch 1
 [1] Finished Add on switch 1
 [2] Add package(s) on switch 2
 [2] Finished Add on switch 2
Checking status of Add on [1 2]
Add: Passed on [1 2]
Finished Add

install_add_activate_commit: Activating ISSU

Going to start Oneshot ISSU install process

STAGE 0: Initial System Level Sanity Check before starting ISSU

=====
--- Verifying install_issu supported ---
--- Verifying standby is in Standby Hot state ---
--- Verifying booted from the valid media ---
--- Verifying AutoBoot mode is enabled ---
Finished Initial System Level Sanity Check

STAGE 1: Installing software on Standby

=====
--- Starting install_remote ---
Performing install_remote on Chassis remote
 [1] install_remote package(s) on switch 1
 [1] Finished install_remote on switch 1
install_remote: Passed on [1]
Finished install_remote

STAGE 2: Restarting Standby

=====
--- Starting standby reload ---
Finished standby reload

--- Starting wait for Standby to reach terminal redundancy state ---

<<<<< Standby (Sw-1) reloads here!!!

<<<<<<< After Standby (Sw-1) comes up >>>>>>>>>>>>>

*Feb 8 10:19:10.223 jst: %REDUNDANCY-3-IPC: IOS versions do not match.
*Feb 8 10:19:48.421 jst: %HA_CONFIG_SYNC-6-BULK_CFGSYNC_SUCCEED: Bulk Sync succeeded
*Feb 8 10:19:49.422 jst: %RF-5-RF_TERMINAL_STATE: Terminal state reached for (SSO) <<<<< Standby (Sw-1) reloads here!!!>>>>>
*Feb 8 10:21:02.975 jst: %PLATFORM-6-HASTATUS_DETAIL: RP switchover, received chassis event became active

<<<<<<< After new Standby (Sw-2) comes up >>>>>>>

*Feb 8 10:27:09.715 jst: %HA_CONFIG_SYNC-6-BULK_CFGSYNC_SUCCEED: Bulk Sync succeeded

*Feb 8 10:27:10.717 jst: %RF-5-RF_TERMINAL_STATE: Terminal state reached for (SS0).

<<<< ISSU commit starts after this automatically..

*Feb 8 10:28:27.302 jst: %INSTALL-5-INSTALL_START_INFO: Switch 2 R0/0: install_engine: Started install

%IOSXEBOOT-4-ISSU_ONE_SHOT: (rp/0): ISSU finished successfully

*Feb 8 10:29:32.127 jst: %INSTALL-5-INSTALL_COMPLETED_INFO: Switch 2 R0/0: install_engine: Completed i

ISSU لامتك ا دع ب ام ى ل لقتنا

تاوطخ ثالث وذل م عمل ريس

- ممت ، طيشنتلا دع ب . مازتلا او طيشنتو ة فاضا : تاوطخ ثالث اذ م عمل ريس نمضت ي متي ال جمانربل ا ن اءانثتساب دي دجال جمانربل ا رادصا ى ل ا تاو ح م ا عي م ج ة ي قرت install commit رم ا ل رب ع ا ي و د ي ه ذ ي فن ت ب ج ي ن ك ل و ، ا ي ا ق ل ت ه ب م ا ز ت ل ا ل ا ج م ا ر ب ل ا ن م ق ب ا س ر ا د ص ا ى ل ا م ا ظ ن ل ا ع ا ج ر ا ة ي ن ا ك م ا ي ف ج ه ن ل ا ا ذ ه ة ز ي م ل ث م ت ت و ت ق و م ف ا ق ي ا م د خ ت س ي و ع ج ا ر ت ل ا ت ق و م ف ا ق ي ا م ت ي م ل ا ذ ا ا ي ا ق ل ت ع و ج ر ل ا ب م ا ظ ن ل ا م و ق ي ل ي غ ش ت ن ك م ي ، ع ج ا ر ت ل ا ت ق و م ف ا ق ي ا م ت ا ذ ا . install commit رم ا ل و ا ي ا ق ل ت ل ا ت ي ب ث ل ا ق ب ا س ل ا ر a د ص ا ل ا ى ل ا ى ر خ ا ة ر م ه ع ا ج ر ا م ت ي م ث ة د م ي ا ل ز ا ه ج ل ا ى ل ع د ي د ج ل ا ج م ا ن ر ب ل ا ر a د ص ا

ة فاضا ت ي ب ث ت ب م ق 1 . ة و ط خ ل ا

ال ك ى ل ع ا ه ع ي س و ت و (bootflash) ة ت ق و م ل ا د ي ه م ت ل ا ة ر ك ا ذ ي ف ة ر و ص ل ل ا ل ي ز ن ت ب ر م ا ل ا ا ذ ه م و ق ي ن ي ل و ح م ل ا

<#root>

// This example has SW-1 as Active and Sw-2 as Standby before starting ISSU

C9500#install add file flash:cat9k-universalk9.SPA.16.09.03.BETA.E1.SSA.bin.bin
install_add: START Fri Feb 8 09:22:00 jst 2019

*Feb 8 09:22:02.055 jst: %INSTALL-5-INSTALL_START_INFO: Switch 1 R0/0: install_engine: Started install

--- Starting initial file syncing ---

[1]: Copying flash:cat9k-universalk9.SPA.16.09.03.BETA.E1.SSA.bin.bin from switch 1 to switch 2

[2]: Finished copying to switch 2

Info: Finished copying flash:cat9k-universalk9.SPA.16.09.03.BETA.E1.SSA.bin.bin to the selected switch(
Finished initial file syncing

--- Starting Add ---

Performing Add on all members

[1] Add package(s) on switch 1

[1] Finished Add on switch 1

[2] Add package(s) on switch 2

[2] Finished Add on switch 2

Checking status of Add on [1 2]

Add: Passed on [1 2]

Finished Add

SUCCESS: install_add Fri Feb 8 09:26:26 jst 2019 <<<< Wait until install_add says SUCCESS. If fails,

ت. تي بثل ال طيش ننت 2. ة وطلال

- ثادخال ل لس لس تال اذ ش دحي، رمال اذ ذيفن تب موقت ام دنع

ماظن ال دوعيس ف، عجار تال تقوم ةي حالص تهتنا اذ. عجار تال تقوم لي غشت ادب مت (i)
مادختسا دن عجار تال تقوم فاق ي نكمي. ISSU لي غشت ادب لبق ة لال س فن ال
install abort رمال مادختسا دن عجار تال نكمي. install auto-abort-timer stop رمال
issu.

رادصا مادختسا اب هلي محت ديعي ودي دجال جامان ربال طاي تال ل وجمال دوزي '2'
داعا ودي دجال جامان ربال عم طشن ال ل وجمال ريفوت متي، كلذ دعب. ديدجال جامان ربال
حبصي و طشن ال ل وجمال وه نال ة ديدجال ة روص ال عم طاي تال ل وجمال حبصي. هلي محت
دادعتسا ال وه ميق ل طشن ال ل وجمال.

ة ديدجال جامان ربال ة روص مادختسا اب ني ل وجمال ال ك لي غشت متي، عارجال اذ ة ياهن في

<#root>

C9500#install activate issu

install_activate: START Fri Feb 8 09:28:27 jst 2019

install_activate: Activating ISSU

*Feb 8 09:28:28.905 jst: %INSTALL-5-INSTALL_START_INFO: Switch 1 R0/0: install_engine: Started install
Going to start Activate ISSU install process

STAGE 0: Initial System Level Sanity Check before starting ISSU=====

--- Verifying install_issu supported ---

--- Verifying standby is in Standby Hot state ---

--- Verifying booted from the valid media ---

--- Verifying AutoBoot mode is enabled ---

Finished Initial System Level Sanity Check

STAGE 1: Installing software on Standby

=====

--- Starting install_remote ---

Performing install_remote on Chassis remote

*Feb 8 09:28:31.880 jst: %INSTALL-5-INSTALL_AUTO_ABORT_TIMER_PROGRESS: Switch 1 R0/0: rollback_timer:

[2] install_remote package(s) on switch 2
[2] Finished install_remote on switch 2
install_remote: Passed on [2]
Finished install_remote

STAGE 2: Restarting Standby

=====
--- Starting standby reload ---
Finished standby reload--- Starting wait for Standby to reach terminal redundancy state ---
<<<<<<< Standby (Sw-2) reloads here!!!*Feb 8 09:35:16.489 jst: %REDUNDANCY-3-IPC: IOS versions do not

*Feb 8 09:36:00.238 jst: %HA_CONFIG_SYNC-6-BULK_CFGSYNC_SUCCEED: Bulk Sync succeeded
*Feb 8 09:36:01.240 jst: %RF-5-RF_TERMINAL_STATE: Terminal state reached for (SSO)

<<<< At this point, Standby (Sw-2) comes up with new code and joins as Hot Standby
Finished wait for Standby to reach terminal redundancy state

STAGE 3: Installing software on Active

=====
--- Starting install_active ---

Performing install_active on Chassis 11] install_active package(s) on switch 1
[1] Finished install_active on switch 1
install_active: Passed on [1]
Finished install_active
Chassis 1 reloading, reason - Non participant detected

STAGE 4: Restarting Active (switchover to standby) <<<<<<< At this point, there is a switchover ar

=====
--- Starting active reload ---
New software can load after reboot process is completed
SUCCESS: install_activate Fri Feb 8 09:37:14 jst 2019

ISSU. تالاح نم ققحت ،طيشنتالالاح ةياهن يف

<#root>

C9500#show issu state detail

--- Starting local lock acquisition on switch 2 ---
Finished local lock acquisition on switch 2

Operation type: Step-by-step ISSU
Install type : Image installation using ISSU
Current state : Activated state
Last operation: Switchover

Completed operations:

Operation Start time

```
Activate location standby Chassis 2 2019-02-08:09:28:32
Activate location active Chassis 1 2019-02-08:09:36:03
Switchover 2019-02-08:09:37:16
```

State transition: Added -> Standby activated -> Active switched-over

```
Auto abort timer: automatic, remaining time before rollback: 01:43:55
Running image: flash:packages.conf
Operating mode: sso, terminal state reached
```

<<<<< Wait until SSO terminal state before proceeding to commit.

م.مازلت الال تي ب ت 3. ةوطخال

مئاد جم ان ربك دي دجلال جم ان رب ال نكمي و، ةمزال ال في ظنن ال ةي لمع ذي فنن ب commit رم ال موق ي
دع ب دي همت ةداع ال نكمي . عجارن ال تقوم فوقوي و، (جم ان رب ال نم مدق ال رادص ال لزي)
ةدي دج جم رب مادخت ساب دي همت ال دي ك ال

<#root>

C9500#install commit

```
install_commit: START Fri Feb 8 09:45:22 jst 2019
install_commit: Committing ISSU
```

*Feb 8 09:45:23.533 jst: %INSTALL-5-INSTALL_START_INFO: Switch 2 R0/0: install_engine: Started install

Going to start Commit ISSU install process

STAGE 0: Initial System Level Sanity Check before starting ISSU

```
=====
--- Verifying install_issu supported ---
--- Verifying standby is in Standby Hot state ---
--- Verifying booted from the valid media ---
--- Verifying AutoBoot mode is enabled ---
```

Finished Initial System Level Sanity Check

--- Starting install_commit_2 ---

```
Performing install_commit_2 on Chassis 2
[2] install_commit_2 package(s) on switch 2
[2] Finished install_commit_2 on switch 2
install_commit_2: Passed on [2]
Finished install_commit_2
```

STAGE 1: Dispatching the commit command to remote

```
=====
```

--- Starting install_commit_remote ---

```
Performing install_commit_remote on Chassis 1
Feb 8 09:48:33.364: %INSTALL-5-INSTALL_START_INFO: R0/0: install_engine: Started install commit
```

*Feb 8 09:48:33.352 jst: %INSTALL-5-INSTALL_START_INFO: Switch 1 R0/0: install_engine: Started install

```
Feb 8 09:51:27.505: %INSTALL-5-INSTALL_COMPLETED_INFO: R0/0: install_engine: Completed install commit
[1] install_commit_remote package(s) on switch 1
[1] Finished install_commit_remote on switch 1
install_commit_remote: Passed on [1]
Finished install_commit_remote

SUCCESS: install_commit Fri Feb 8 09:51:27 jst 2019

<<<<< ISSU is completed here!!!!
```

ISSU ل عجز رملة عمئاق ل رشن

حاجب ISSU لامتك درجب

- ديدج الام نربل عل نالغشي نيلوحملا الك ناك اذا ام ققحت.
- دي ق ISSU أ ضرعي الوافيظن نوكل "show issu" ةلحال لئصافت جارخ| صحفب مق مدقتل.
- عم طقف رمأل رفوتئ ISSU ةيلمع حاجن نامضل show install issu history output نم ققحت (ثدحال تارادصل او 16.10.1 رادصل).
- ةديج ةزيم أ رادصل لب ق ديدج الام نربل ف فاك تقو اعطاب صوي.

ISSU ل شف ل ع ءارخ

- ماظنل ةداعتسإ نم ئئاقلل ضاهجال نكمئ نأ عقوتمل نم، ISSU ل شف ةلاح ف نم ف، اضيأ اذ ل شف ةلاح ف، كلذ عم و. (مدقأل ةروصل) ةيلوأل ةلحال لئ عرأ ةرم لكئهلل يودي دادرئسإ ءارخ عقوتمل.
- دادعتسال زاوو طشنل زاوجل نم لك ناك اذا ام ققحت، يوديلا دادرئسال اءنثأ (ئدرفلل لكئهلل درئساف، كلذك رمأل نكئ مل اذا) ةمدقلا ةروصل نالغشي.
- ئبئئ لئغشئب مق، ةمدقلا ةروصل لئغشئب موقت لكئهلل الك نأ نم دكأتل دعب ةمدختسم ريغ روص مزح أ ةلازال طشن ريغ ةلاز.
- تالخال عيمج فئظنئب مق، مديق الام نربل لئغشئب نئلكئهلل الك موقئ نأ درجب (ةلخال ISSU تالخال فئظنئب ةئفك لوج انه عرا). ايودي ISSU ةيلمعل ةلخالل.

ISSU ضاهج

- ةئال صئهنأ اذا، ISSU ةيلمع طئشنئ اءنثأ، تاوئخ 3 نم نوكملا لمعل رئس ف ئئاقلل ضاهجاب مايقلا ماظنلل نكمئ، لامتكال لب ق هئاقئئ مت ئذل تقؤملا ةمدقلا ةروصلل.

يودي ضاهج| ارج| مزلي ، ضاهج| اءانثأ SSO لى| دادعتسالا عضو لصي مل اذا :ةظحال م
ضاهج| ا كمزلي ف ، فصتنملا في ISSU ضاهج| في ببس يأل بغيرت تنك اذا ، اضيأ
يودي ل

<#root>

EXAMPLE : During install add, we notice these erro

rs:

```
C9400#install add file flash:cat9k_iosxe.16.09.02.SPA.bin
install_add: START Tue Nov 13 20:47:53 UTC 2018
```

```
*Nov 13 20:47:54.787: %INSTALL-5-INSTALL_START_INFO: Chassis 1 R1/0: install_engine: Started install ad
```

```
--- Starting initial file syncing ---
```

```
[1]: Copying flash:cat9k_iosxe.16.09.02.SPA.bin from chassis 1 to chassis 2
```

```
[2]: Finished copying to chassis 2
```

```
Info: Finished copying flash:cat9k_iosxe.16.09.02.SPA.bin to the selected chassis
```

```
Finished initial file syncing
```

```
--- Starting Add ---
Performing Add on all members
 [1] Add package(s) on chassis 1
 [1] Finished Add on chassis 1
 [2] Add package(s) on chassis 2
    cp: cannot stat '/tmp/packages.conf': No such file or directory
 [2] Finished Add on chassis 2
Checking status of Add on [1 2]
Add: Passed on [1]. Failed on [2]
Finished Add
```

```
FAILED: install_add exit(1) Tue Nov 13 20:51:58 UTC 2018 <<<<< install_add failed. If see any such e
```

```
C9400#install abort issu
```

```
install_abort: START Tue Nov 13 20:57:40 UTC 2018
install_abort: Abort type ISSU subtype NONE smutype NONE
```

```
*Nov 13 20:57:41.759: %INSTALL-5-INSTALL_START_INFO: Chassis 1 R1/0: install_engine: Started install ab
```

```
NOTE: Going to start Abort ISSU install process
```

```
STAGE 0: Initial System Level Sanity Check before starting ISSU
```

```
=====
```

```
--- Verifying install_issu supported ---
--- Verifying booted from the valid media ---
--- Verifying AutoBoot mode is enabled ---
Finished Initial System Level Sanity Check
```

```
FAILED: ABORT operation is not allowed in ADDED state
ERROR: install_abort exit(2 ) Tue Nov 13 20:57:49 UTC 2018
```

```
*Nov 13 20:57:49.756: %INSTALL-5-INSTALL_COMPLETED_INFO: Chassis 1 R1/0: install_engine:
```

```
Completed install abort ISSU
```

ويالو Clean ISSU

يئاقولتلل ضاهجال/يئاقولتلل ضاهجال/قباس رادصا يلى عوجرل/ISSU يئاقولتلل حجتت مل اذا
يئاقولتلل ضاهجال/ISSU تالاحل يوديلى فيظنتل اارجا مزلي.

```
<#root>
```

```
C9400#sh issu state detail
```

```
--- Starting local lock acquisition on chassis 1 ---
Finished local lock acquisition on chassis 1
```

```
Operation type: One-shot ISSU
Install type : Image installation using ISSU
```

```
Current state : Added state
```

```
Last operation: Activate location standby Chassis 2 <<<< Previous Add is still pending. This needs to
```

```
Completed operations:
```


Operation	Start time

Activate location standby Chassis 2	2018-11-13:16:26:34

State transition: Added

Auto abort timer: inactive
Running image: flash:packages.conf
Operating mode: sso, terminal state not reached

Enable Service Internal before you run this command

C9400#clear install state

clear_install_state: START Tue Nov 13 17:05:47 UTC 2018
--- Starting clear_install_state ---
Performing clear_install_state on all members
 [1] clear_install_state package(s) on chassis 1
 [1] Finished clear_install_state on chassis 1
Checking status of clear_install_state on [1]
clear_install_state: Passed on [1]

Finished clear_install_state

C9400#sh issu state detail

--- Starting local lock acquisition on chassis 1 ---
Finished local lock acquisition on chassis 1

No ISSU operation is in progress

ةمچرتل هذه لوج

ةللأل تاي نقتل نم ةومچم مادختساب دن تسمل اذہ Cisco تچرت
ملاعلاء انءمچي فني مدختسمل معدى وتحم مي دقتل ةيرشبلاو
امك ةقيقد نوك تنل ةللأل ةمچرت لصف أن ةظحال مچري. ةصاخل مهتغب
Cisco يلخت. فرتحم مچرت مامدقي يتل ةيفارتحال ةمچرتل عم لالحل وه
ىلإ أمئاد عوچرلاب ي صؤت وتامچرتل هذه ةقد نع اهتيلوئسم Cisco
Systems (رفوتم طبارلا) ي لصلأل يزي لچنل دن تسمل