

Catalyst 9000 Series التالڊبم ىلع ISSU ذيفنت

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قمدقملا

ىلع (ISSU) قمدخل اناثا جماربلا قىقيرت عارجال قنمضتملا تاوطخل دنتمسما اذه فصى Catalyst 9000 series و Catalyst 3850 التالڊم.

ISSU وه ام

اناثا ام زاهج لعل ىرخا قروصل لىل قروصل قىقيرت ب موقت قىلمع يه قمدخل اناثا جماربلا قىقيرت يلوؤسم (ISSU) قكرتشملا تامدخل معد قدحو دعاست. مزحلا هيچوت قداع ي قكبشلا رارمتسا ي قروصل قىقيرت مت جماربلا قىقيرت عارجا دن قكبشلا عاطقنا بنجت لعل قكبشلا يدر قكبش قمدخل لك قىقيرت مت شىح، تيبتتملا عضو

معدت يتملا Catalyst 9000 series و Catalyst 3850 قلسلسلا عيمج لعل ISSU معد متي نىيئانث نىفرشم عم Catalyst 9400 / 9600 لقتسملا لكىهلا لعل اضي او Stackwise-Virtual

SVL معدى. دحاو يرهاظ لوحم نىوكتل اعم نىلصتم نىلوحم (SVL) StackWise Virtual نمضتمى قمدخل اناثا جماربلا تايقيرت.

رادصلإا معد ةفوفصمو ةم وعدملا ةيساسألا ةمظنألا

ققحت .لعلفلاب ISSU معدت ةصنملا تناك اذا امم ققحت ،ISSU مادختساب ةعباتملا لبق ىلع روثعل نكمي .فدهل زمرلاو ةيلالحلا ةيجمرربلا تاميلعتلا نيب ISSU معد نم اضيأ انه ISSU قفاوت ةفوفصمو ةم وعدملا ةيساسألا ةمظنألا لوح عضولا ليصافت

[تارادصلإا نيب ISSU معد](#)

ISSU لبق ةيساسألا تابلطتملا

 يتال Cisco Catalyst 9500 switches تالوحم ىلع دننسملا اذه في لاثملا دمتعي :ةظحالم لقتسملا لكيلهال ىلع تاوطخل قبطنت .StackWise-Virtual اهنأ ىلع اهنويوكت مت Catalyst 3850 / Catalyst 9000 ةزهجألل اضيأ و جودزمل فرشملا تاكرحم عم Cat9400 / Cat9600 StackWise-Virtual ةزهجأك اهنويوكت مت يتال 9000 في راركتلا ىلإ (ISSU) ةقاطلا معد ةدحوجاتحت ،ةيلمعل اناثأ ةمزح يأ نادقف بنجتل ثودحل ارظنو .ءاوسلا ىلع دادعتسالا ةزهجأو ةطشنلا ةزهجألا هاجت كب ةصاخلا دقعلل .كتكبش في يلاعلا رفوتلا نامضل امهنيب ليديت ءارجإ مزليو ليومت ةداعإ ةيلمع

1. يلاحل زمرلا رادصلإا نم ققحتلا

<#root>

C9500#show version | in IOS XE

Cisco IOS XE Software, Version 16.09.02

2. ديهمتلا عضو نم ققحت

.تيتبثتلا عضو في StackWise Virtual في نيولوجملا لك 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"

نإ اذه لثم أطخ تيأر عي طتسي تنأ ISSU. ممد متي ال ،ةم زح عضوي ف لك يهل دي همت لاج ي ف بولسأ ةم زح ي ف ضكري نو كي حات فم ال امدنع issu ضكري نأ تنأ لواح 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. ةركاذلا Flash ةركاذ ىلع ةيفاك ةرفوتم ةركاذ كانه تناك اذا امم ققحت (ةتقؤملا)

<#root>

C9500#dir flash: | in free

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

C9500#dir stby-flash: | in free

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

فيظنتب مق .ةدي دج ةروص عيسوتل Flash ي ف لقألا ىلع تي اباجي 1 ةحاسم كي دل نأ دكأت install remove رمألا مدختساو ةيفاك ةحاسم دوجو مدع ةلاح ي ف ةميدقلا تي بثتلا تافلم inactive.

4. SSO عضوي ف تالوحملا دوجو نم ققحتلا

<#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

يئاقلا لال ديه متلا ني كم مت اذا ام ققحت 5.

<#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

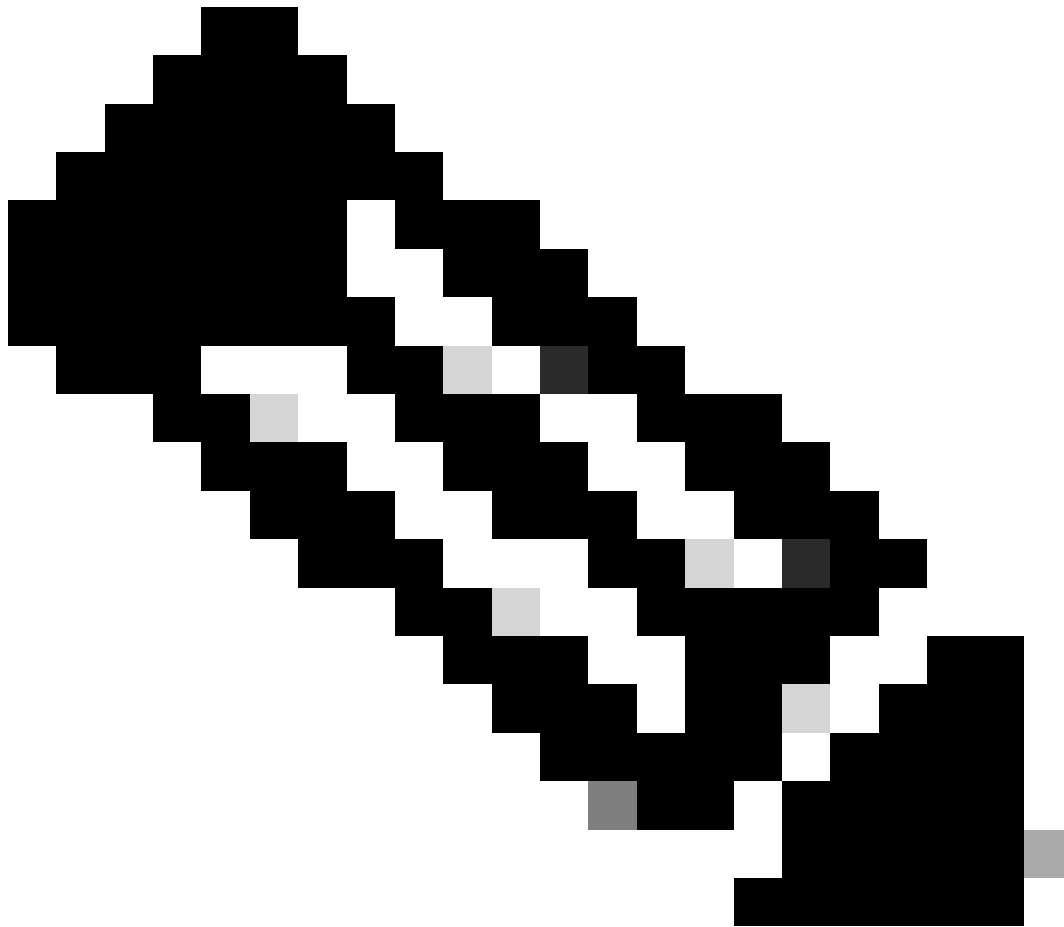
Enable Break = no
Boot Mode = DEVICE
iPXE Timeout = 0

حضورم وه امك كلذ ريغيغت نكمي،يئاقللتالديهمتال نيكمتم تي مل اذإ

<#root>

C9500(config)#no boot manual

تثبتتال ةلالحو ةلالال ISSU ةلال نم ققحت 6.



!ادج ةمهم ةوطخل هذه :ةطحال

<#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

اهضي فخت / اهتي قرت متيس يتال ةدي دجال ةروصلل خسن ا.

طشنل فرشملا وأ (StackWise ةلاح يف) طشنل لكيلهلا ىل طوق ةروصلل خسن يفكي (Cat9400 Dual SUP ةلاح يف).

<#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]?

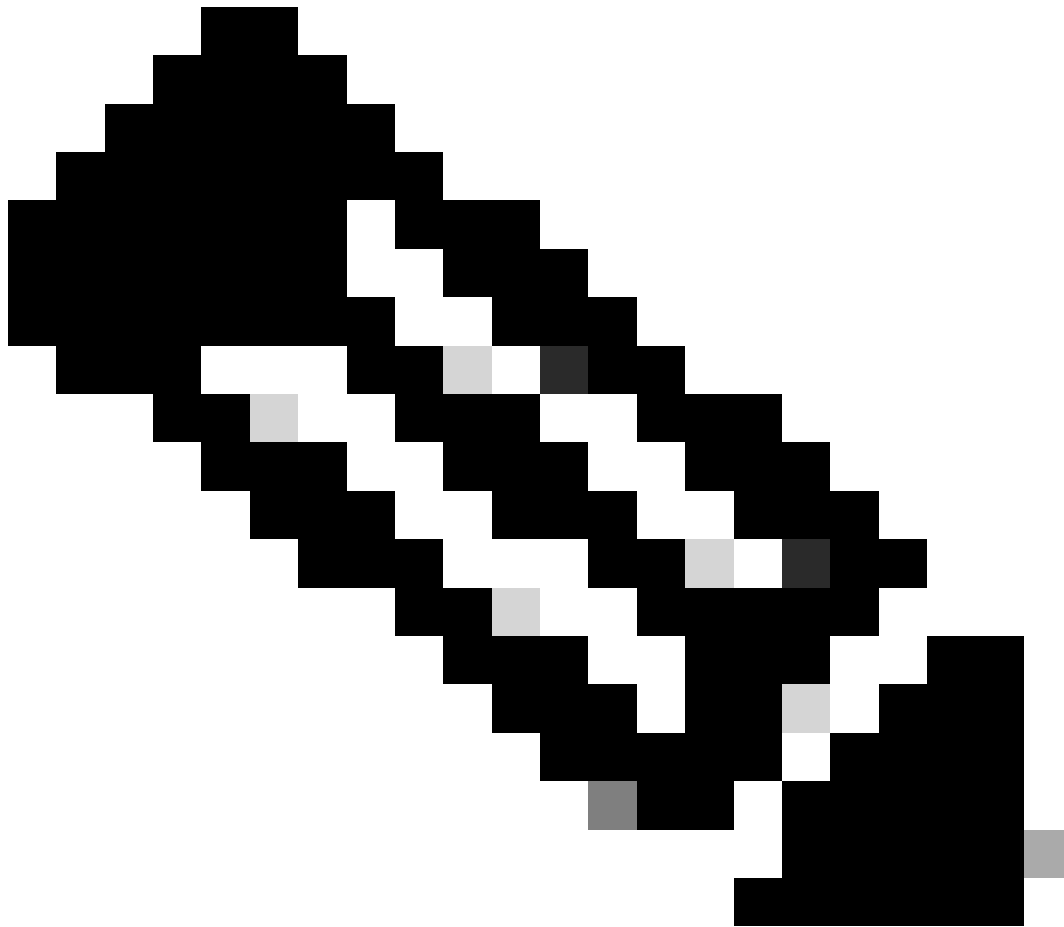
ةيل عف ةي قرت - ISSU لمع ريس تاي لمع

ةيل عف ةي قرتلا يف ةعباتملا كنكمي ، ةيساسألا تابلطتملا عي مج نم ققحتلا درجمبو
ةجر دمل قرتلا ىدحإ مادختساو:

- (تانايبلا عاجرتسا معدى الو طوق ةدحاو ةوطخ) ةدحاو ةوطخ لمع ريس
- (لشفلا ةلاح عاجرتسا معدى و تاوطخ ثالث نمضتي) تاوطخ ثالث وذ لمعلا ريس

ةدحاو ةوطخ لمع ريس

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



ىلإ ةعبات ملاب مق .ايئاق لت ةيقرتلا ذيفنت متي ثيح عجارثلا كنكمي ال :ةظحال م
عجارثلا في بغرت تنك اذا ثالثلا تاوطخل يذ لمعل 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 (SS0) <<<<< Standby (Sw

*Feb 8 10:21:02.975 jst: %PLATFORM-6-HA_STATUS_DETAIL: RP switchover, received chassis event became act

<<<<<<< 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 لمعال ريس

- م ت ت ، طيشننتال دع ب .مازتال او طيشننتو ةفاضل :تاوطخ ثالث اذه لمعال ريس نمضت ي متي ال جمانربل نا اناثتساب ديدجل جمانربل رادصل ىل تالوحمال عيمج ةيقرت install commit. رمال ربع ايودي هذيفنت بجي نكلو ،ايئاقلت هب مازتالال
- جماربل نم قباس رادصل ىل ماظنل اعاجا ةيناكلما ي ف جهنل اذه ةريم لثمتتو
- تقؤم فاقيا مدختسيو عجارتل تقؤم فاقيا متي مل اذا ايئاقلت عوجرلاب ماظنل موق ي ليغشت نكم ي ،عجارتل تقؤم فاقيا مت اذا install commit. رمال وا ايئاقلتال تيبتل قباسل رادصلال ىل ىرخا ةرم هعاجا متي م ث ةدم يال زاهجل ىل عديدجل جمانربل رادصل

ةفاضل تيبتت ب مق 1. ةوطخل

الك ىل عاهعيسوتو (bootflash) ةتقؤمل ديهمتل ةركاذ ي ف ةروصلال ليزنن ب رمال اذه موق ي نيلوحمال

<#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.ي ب ث الت ط ي ش ن ت 2. ة و ط خ ل

- ث ا د خ أ ل ل س ل س ت ل ا ا ذ ه ث د ح ي ، ر م أ ل ا ا ذ ه ذ ي ف ن ت ب م و ق ت ا م د ن ع

م ا ظ ن ل ا د و ع ي س ف ، ع ج ا ر ت ل ا ت ق و م ة ي ح ا ل ص ت ه ت ن ا ا ذ ا . ع ج ا ر ت ل ا ت ق و م ل ي غ ش ت ء د ب م ت (i)
م ا د خ ت س ا د ن ع ع ج ا ر ت ل ا ت ق و م ف ا ق ي ا ن ك م ي . ISSU ل ي غ ش ت ء د ب ل ب ق ة ل ا ح ا ل س ف ن ي ل ا
install abort ر م أ ل ا م ا د خ ت س ا د ن ع ISSU ع ا ج ر ت س ا ن ك م ي . install auto-abort-timer stop. ر م أ ل ا
issu.

ر ا د ص ا م ا د خ ت س ا ب ه ل ي م ح ت د ي ع ي و د ي د ج ل ا ج م ا ن ر ب ل ا ب ي ط ا ي ت ح ا ل ا ل و ح م ل ا د و ز ي '2'
ة د ا ع ا و د ي د ج ل ا ج م ا ن ر ب ل ا ع م ط ش ن ل ا ل و ح م ل ا ر ي ف و ت م ت ي ، ك ل ذ د ع ب . د ي د ج ل ا ج م ا ن ر ب ل ا
ح ب ص ي و ط ش ن ل ا ل و ح م ل ا و ه ن أ ل ا ة د ي د ج ل ا ة ر و ص ل ا ع م ي ط ا ي ت ح ا ل ا ل و ح م ل ا ح ب ص ي . ه ل ي م ح ت
د ا د ع ت س ا ل ا و ه م ي د ق ل ل ط ش ن ل ا ل و ح م ل ا

ة د ي د ج ل ا ج م ا ن ر ب ل ا ة ر و ص م ا د خ ت س ا ب ن ي ل و ح م ل ا ل ك ل ي غ ش ت م ت ي ، ع ا ر ج ا ل ا ا ذ ه ة ي ا ه ن ي ف

<#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 (SS0)

<<<< 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 1] 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 and

--- 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 ،طيشنتالاح 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 SS0 terminal state before proceeding to commit.

ممازتلالال تيبتت 3. ةوطخل

مئاد جمانربك ديدجل جمانربال نكمي و، ةمزالال فيظنتال ةيلمع ذيفنتب commit رمأال موقي
دعب ديهمت ةداعإ ال نكمي. عجارنال تقؤم فقوي و، (جمانربال نم مدقأال رادصإال ليزي)
ةديدج جمارب مادختساب ديهمتال ديكأاتال.

<#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

=====

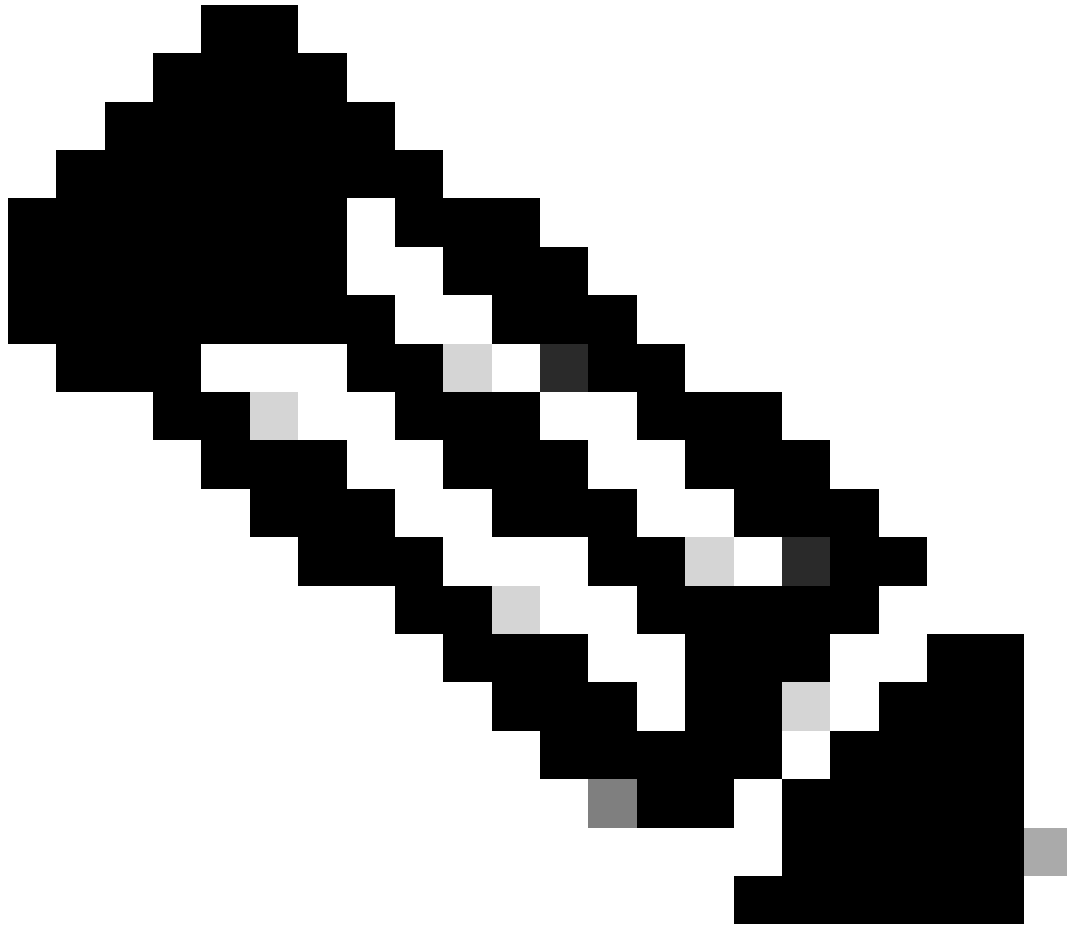
--- Starting install_commit_remote ---

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

- **ةيحل الص تهتنا اذا**، ISSU ةيلمع طيشنت ءانثأ ،تاوطخ 3 نم نوكم لمعل ريس يف
يئاقلت ضاهج اب مايقلل ماضنلل نكمي ،لامتكالال لبق هفاقي مت يذل تقوُم ال
ةمدقلل ةروصلل.



اضياء. يودي الى ضاهج الى مزلي، ضاهج الى اناثا SSO الى دادعت سال الى لصي مل اذ: ةظحال م
يودي الى ضاهج الى كمزلي ف، فصتنم الى في ISSU ضاهج الى في ببس الى أل بغرت تنك اذ

<#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
```


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 ل و ح

ةيلآل ا تاي ن ق ت ل ا ن م ة و م ج م ا د خ ت س ا ب د ن ت س م ل ا ا ذ ه Cisco ت م چ ر ت م ل ا ع ل ا ا ح ن ا ع م ج ي ف ن ي م د خ ت س م ل ل م ع د ي و ت ح م م ي د ق ت ل ة ي ر ش ب ل ا و ا م ك ة ق ي ق د ن و ك ت ن ل ة ي ل آ ة م چ ر ت ل ض ف ا ن ا ة ط ح ا ل م ي ج ر ي . ة ص ا خ ل ا م ه ت غ ل ب Cisco ي ل خ ت . ف ر ت ح م م چ ر ت م ا ه م د ق ي ي ت ل ا ة ي ف ا ر ت ح ا ل ا ة م چ ر ت ل ا ع م ل ا ح ل ا و ه ي ل ا ا م ا د ع و ج ر ل ا ب ي ص و ت و ت ا م چ ر ت ل ا ه ذ ه ة ق د ن ع ا ه ت ي ل و ئ س م Systems (ر ف و ت م ط ب ا ر ل ا) ي ل ص ا ل ا ي ز ي ل ج ن ا ل ا د ن ت س م ل ا