

# 在ISE上安裝修補程式

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## 簡介

本文檔介紹在安裝期間安裝ISE補丁和常見問題的方法。

## 必要條件

### 需求

身份服務引擎(ISE)的基本知識。

### 採用元件

本文中的資訊係根據以下軟體和硬體版本：

- Cisco Identity Service Engine 2.X

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

## 背景資訊

思科會以半定期的方式發布 ISE。這些修補程式包含錯誤修復程式，並在必要時包含安全修復程式 (例如， `Heartbleed` 和 `Poodle` 使用SSL發現的漏洞)。

為了確保應用錯誤修復，需要插入安全漏洞，且解決方案能夠無縫工作。

當您在ISE節點上安裝補丁時，該節點將重新啟動。安裝完成後重新啟動服務。請等待幾分鐘，然後您就可以重新登入了。

您可以在維護時段期間安排修補程式安裝作業，以避免暫時中斷的情況。

僅安裝適用於網路中部署的思科版本的修補程式。思科會報告版本中的任何不符情況以及修補檔案中的任何錯誤。

您不能安裝低於當前在思科上安裝的補丁的版本。同樣地，如果思科產品上已安裝較新的版本，您便無法復原較舊版本的變更。


當您從 **Primary Administration Node (PAN)** 作為分散式部署的一部分，思科ISE在主節點上安裝補丁程式，然後在部署中的所有輔助節點上安裝補丁程式。

如果在 PAN 然後，思科ISE繼續在輔助節點上安裝補丁程式。如果在 PAN，安裝不會繼續到輔助節點。

但是，如果出於任何原因而在任何次要節點上安裝失敗，則仍會繼續在部署中的下一個次要節點上進行安裝。

當您從 PAN 作為雙節點部署的一部分，思科會在主節點上安裝補丁程式，然後在輔助節點上安裝補丁程式。

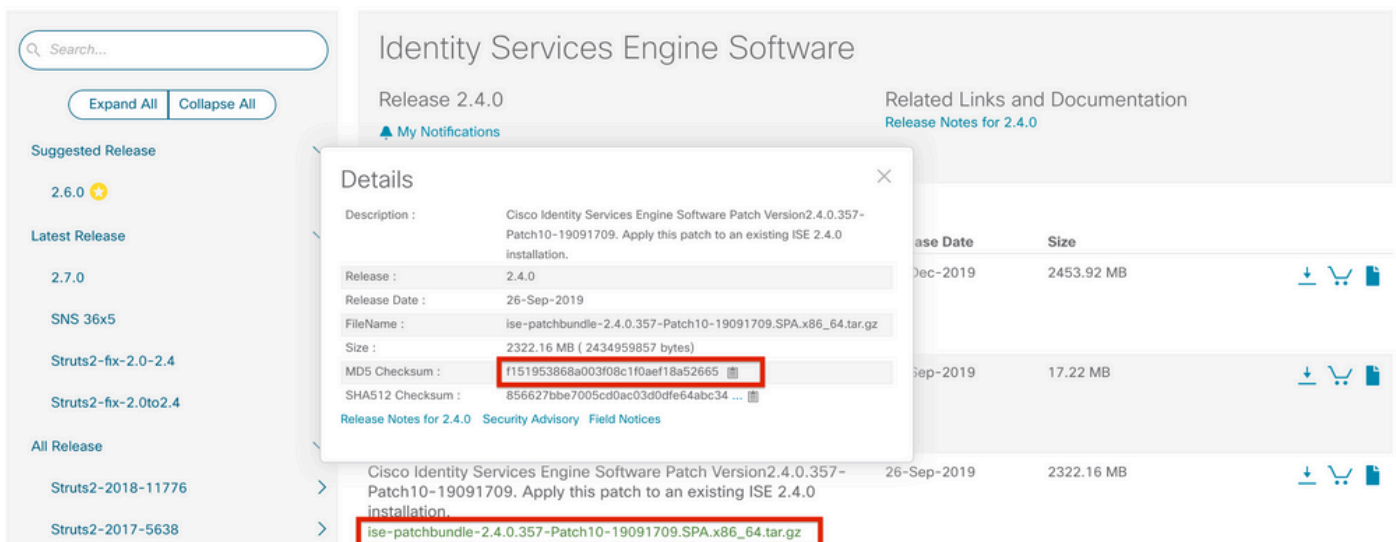
如果在 PAN 然後，思科繼續在輔助節點上安裝補丁程式。如果在 PAN，安裝不會繼續到輔助節點。

 您必須具有超級管理員或系統管理員的管理員角色，才能安裝或復原修補程式。在修補程式安裝開始之前，收集配置備份和操作備份。

## 使用GUI安裝補丁程式

要從Cisco.com下載ISE補丁程式，請導航至 **Downloads > Products > Security > Access Control and Policy > Identity Services Engine > Identity Services Engine Software**，(此處。)

[Downloads Home](#) / [Security](#) / [Network Visibility and Segmentation](#) / [Identity Services Engine](#) / [Identity Services Engine Software](#) / [Identity Services Engine System Software- 2.4.0](#)



**Identity Services Engine Software**  
Release 2.4.0  
▲ My Notifications  
Related Links and Documentation  
[Release Notes for 2.4.0](#)


Release Date	Size	
Dec-2019	2453.92 MB	<a href="#">↓</a> <a href="#">🛒</a> <a href="#">📄</a>
Sep-2019	17.22 MB	<a href="#">↓</a> <a href="#">🛒</a> <a href="#">📄</a>
26-Sep-2019	2322.16 MB	<a href="#">↓</a> <a href="#">🛒</a> <a href="#">📄</a>


**Details**

Description: Cisco Identity Services Engine Software Patch Version 2.4.0.357-Patch10-19091709. Apply this patch to an existing ISE 2.4.0 installation.

Release: 2.4.0  
Release Date: 26-Sep-2019  
File Name: ise-patchbundle-2.4.0.357-Patch10-19091709.SPA.x86\_64.tar.gz  
Size: 2322.16 MB ( 2434959857 bytes)  
MD5 Checksum: **f151953868a003f08c1f0aef18a52665** [📄](#)  
SHA512 Checksum: 856627bbe7005cd0ac03d0dfe64abc34... [📄](#)  
[Release Notes for 2.4.0](#) [Security Advisory](#) [Field Notices](#)

Cisco Identity Services Engine Software Patch Version 2.4.0.357-Patch10-19091709. Apply this patch to an existing ISE 2.4.0 installation.  
**ise-patchbundle-2.4.0.357-Patch10-19091709.SPA.x86\_64.tar.gz**

 注意：思科ISE修補程式通常是累積的，這意味著修補程式11的安裝包括從修補程式1到修補程式10的所有修補程式。修補程式安裝需要重新啟動ISE伺服器。

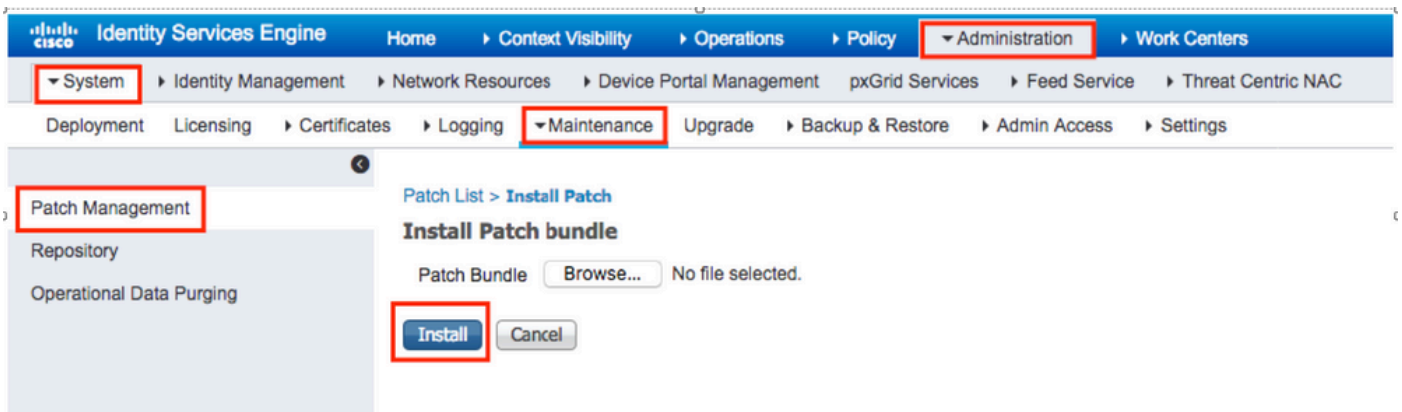
 注意：下載修補程式檔案後驗證MD5/SHA512校驗和。

要在ISE上應用補丁程式，請登入到ISE Primary Administration Node (PAN) GUI並執行以下指令：

步驟 1. 導航至 Administration > System > Maintenance > Patch Management > Install.

步驟 2. 按一下 Browse 並選擇從Cisco.com下載的修補程式檔案。

步驟3. 單擊 Install 安裝修補程式。



## 使用CLI安裝修補程式

步驟 1. 配置ISE儲存庫並將所需的ISE修補程式放置在儲存庫中。若要設定 ISE 存放庫，請參閱[如何在 ISE 上設定存放庫。](#)

步驟 2. 使用SSH登入ISE CLI。

步驟 3. 確保ISE CLI可以列出儲存庫內容。

```
<#root>
```

```
ISE/admin# show repository FTP_repository
```

```
ise-patchbundle-10.2.0.7-Patch6-19021923.SPA.x86_64.tar.gz
```

```
ise-patchbundle-10.2.0.7-Patch9-19062923.SPA.x86_64.tar.gz
```

```
ise-patchbundle-10.1.0.0-Ptach3-19110111.SPA.x86_64.tar.gz
```

步驟 4. 要在CLI中的特定ISE節點上安裝修補程式，請運行 `patch install` 命令。

```
Patch install
```

透過 SSH 登入 ISE 節點的 CLI，然後執行下列命令：

```
ISE/admin#patch install ise-patchbundle-10.1.0.0-Ptach3-19110111.SPA.x86_64.tar.gz FTP_repository
% Warning: Patch installs only on this node. Install with Primary Administration node GUI to install on
Save the current ADE-OS run configuration? (yes/no) [yes] ? yes
Generating configuration...
Saved the ADE-OS run Configuration to startup successfully
Initiating Application Patch installation...

Getting bundle to local machine...
Unbundling Application Package...
Verifying Application Signature...
patch successfully installed

% This application Install or Upgrade requires reboot, rebooting now...
Broadcast message from root@ISE (pts/1) (Fri Feb 14 01:06:21 2020):
Trying to stop processes gracefully. Reload lasts approximately 3 mins
Broadcast message from root@ISE (pts/1) (Fri Feb 14 01:06:21 2020):
Trying to stop processes gracefully. Reload takes approximately 3 mins
Broadcast message from root@ISE (pts/1) (Fri Feb 14 01:06:41 2020):
The system is going down for reboot NOW
Broadcast message from root@ISE (pts/1) (Fri Feb 14 01:06:41 2020):
The system is going down for reboot NOW
```

## 如何在部署中的所有ISE節點上安裝補丁程式

當您從 PAN 作為分散式部署的一部分，思科ISE會在主節點上安裝補丁程式，然後在部署中的所有輔助節點上安裝補丁程式。

如果成功在主要 PAN 上安裝修補程式，Cisco ISE 便會繼續在次要節點上安裝修補程式。如果在 PAN，安裝不會繼續到輔助節點。

但是，如果出於任何原因而在任何次要節點上安裝失敗，則仍會繼續在部署中的下一個次要節點上進行安裝。

## 如何在部署中的所有ISE節點上回滾補丁程式

要從部署中的思科ISE節點回滾補丁程式，您必須首先從 PAN。

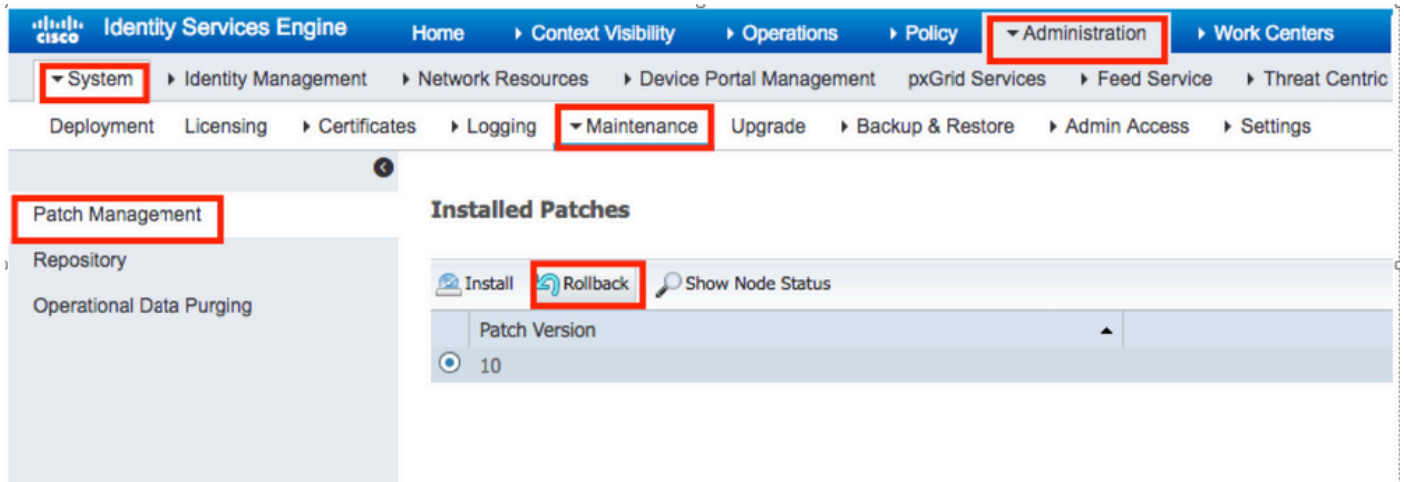
如果成功完成此動作，則修補程式將會從次要節點復原。如果回滾過程在 PAN，修補程式不會從輔

助節點回滾。

但是，如果修補程式在任何次要節點上復原失敗，則仍會繼續透過部署中的下一個次要節點來復原修補程式。

當Cisco ISE從輔助節點回滾補丁時，您可以繼續從 PAN GUI.輔助節點在回滾後重新啟動。

要回滾ISE修補程式，請登入到 ISE GUI 並導航至 Administration > System > Maintenance > Patch Management > 並選擇所需的修補程式，然後按一下 Rollback，如下所示：



## 如何透過 ISE CLI 復原修補程式？

步驟 1. 通過SSH連線到要刪除補丁的ISE節點。

步驟 2. 使用命令驗證ISE節點上安裝的修補程式 Show Version

```
<#root>
```

```
ISE/admin# show version
```

```
Cisco Application Deployment Engine OS Release: 3.0
ADE-OS Build Version: 3.0.5.144
ADE-OS System Architecture: x86_64
Copyright (c) 2005-2019 by Cisco Systems, Inc.
All rights reserved.
Hostname: ISE
```

```
Version information of installed applications
```

```
-----
Cisco Identity Services Engine
```

```
-----
Version : 10.1.0.0
Build Date : Tue Feb 12 00:45:06 2019
Install Date : Mon Sep 30 12:17:29 2019
```

```
Cisco Identity Services Engine Patch
```

```
-----
```

Version : 1

Install Date : Tue Oct 01 01:30:12 2019

Cisco Identity Services Engine Patch

-----  
Version : 3

Install Date : Tue Mar 24 05:35:19 2020

步驟 3.執行命令 `patch remove <application name> <要刪除的修補程式檔案編號>`

例如 : - `patch remove ise 2`

```
ISE/admin# patch remove ise 3
Continue with application patch uninstall? [y/n] y
% Warning: Patch is removed only from this node. Remove patch with Primary Administration node GUI to r
Patch successfully uninstalled

% This application Install or Upgrade requires reboot, rebooting now...
Broadcast message from root@ISE (pts/1) (Sun Mar 8 03:16:29 2020):
Trying to stop processes gracefully. Reload takes approximately 3 mins
Broadcast message from root@ISE (pts/1) (Sun Mar 8 03:16:29 2020):
Trying to stop processes gracefully. Reload takes approximately 3 mins
Broadcast message from root@ISE (pts/1) (Sun Mar 8 03:17:41 2020):
The system is going down for reboot NOW
Broadcast message from root@ISE (pts/1) (Sun Mar 8 03:17:41 2020):
The system is going down for reboot NOW
```



注意:ISE補丁是累積性的，當存在較新版本時無法回滾。較新的版本需要首先回滾。

---

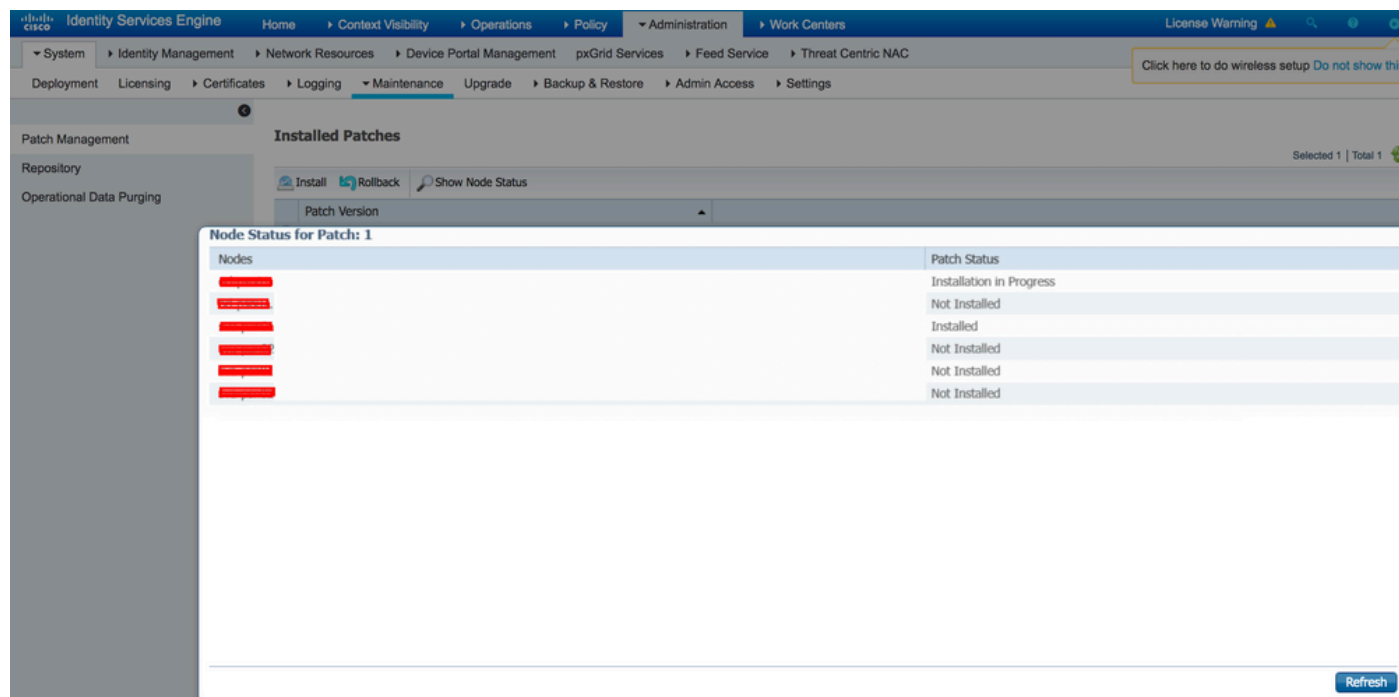
要解除安裝以前的修補程式，請先解除安裝最新的修補程式，然後解除安裝以前的修補程式版本。

```
ISE/admin#patch remove ise 1
Continue with application patch uninstall? [y/n] y
% Warning: Patch is removed only from this node. Remove patch with Primary Administration node GUI to r
Continue? (yes/no) [yes] ? yes
```

% Patch cannot be rolled back while a newer version exists, which needs to be rolled back first.

## 驗證

要檢視ISE補丁安裝進度，請導航至 **Administration > System > Maintenance > Patch Management > Show Node Status** 如下圖所示：



從ISE節點驗證修補程式安裝狀態。登入到同一ISE伺服器並運行命令 **Show Version**

```
ISE1/admin# show version
```

```
Cisco Application Deployment Engine OS Release: 3.0  
ADE-OS Build Version: 3.0.5.144  
ADE-OS System Architecture: x86_64
```

```
Copyright (c) 2005-2019 by Cisco Systems, Inc.  
All rights reserved.  
Hostname: ISE1
```

```
Version information of installed applications  
-----
```

```
Cisco Identity Services Engine  
-----  
Version : 10.1.0.0  
Build Date : Tue Feb 12 06:15:06 2019  
Install Date : Thu Nov 21 16:39:02 2019
```

```
Cisco Identity Services Engine Patch  
-----  
Version : 1  
Install Date : Thu Apr 02 11:00:08 2020
```

ISE1/admin#

驗證ISE警報中的成功和失敗修補程式消息：

Severity	Description	Count	Time
Warning	Queue Link Error	4646	4 mins ago
Error	Patch Failure	2	7 mins ago
Warning	Health Status Unavailable	415	8 mins ago
Warning	ISE Authentication Inactivity	1318	13 mins ago
Warning	Fewer VM licenses installed than VM nodes deployed	4	24 mins ago
Error	DNS Resolution Failure	504	24 mins ago
Info	Patch Success	1	24 mins ago
Error	ISE License expiring within 30 Days	42	25 mins ago
Error	Active Directory not joined	258	25 mins ago

## 修補程式安裝成功記錄參考

<#root>

isea/admin#

```
sh log system ade/ADE.log tail
```

```
2020-04-19T15:38:01.634794+05:30 isea ADEOSJAVAAPI[26999]: ADEAUDIT 2030, type=PATCH INSTALL, name=PATCH INSTALL STARTED
```

```
, username=kopriadm,
```

```
cause=Application patch install has been initiated
```

```
, adminipaddress=10.65.80.116,
```

```
interface=GUI,
```

```
detail=Patch Install initiated with bundle - ise-patchbundle-10.1.0.0-Patch3-19110111.SPA.x86_64.tar.gz
```

```
2020-04-19T15:38:01.635194+05:30 isea ADE-SERVICE[1158]: [26999]:[info] application:install cars_instal
```

```
ise-patchbundle-10.1.0.0-Patch3-19110111.SPA.x86_64.tar.gz
```

```
, repo - tmplocalpatchinsta
```

```
llrepo
```

```
2020-04-19T15:38:01.784100+05:30 isea ADE-SERVICE[1158]: [26999]:[info] application:install cars_instal
```

```
2020-04-19T15:38:01.827925+05:30 isea ADE-SERVICE[1158]: [26999]:[info] application:install cars_instal
```

```
2020-04-19T15:38:01.829562+05:30 isea ADE-SERVICE[1158]: [26999]:[error] config:repository: rm_repos_cf
```

```
2020-04-19T15:38:01.830656+05:30 isea ADE-SERVICE[1158]: [26999]:[info] transfer: cars_xfer.c[66] [test
```

```
2020-04-19T15:38:02.873630+05:30 isea ADE-SERVICE[1158]: [26999]:[info] transfer: cars_xfer_util.c[2293
```

```
2020-04-19T15:38:03.247065+05:30 isea ADE-SERVICE[1158]: [26999]:[info] application:install cars_instal
```



Got bundle at - /storeddata/Install/.1587290881/ise-patchbundle-10.1.0.0-Patch3-19110111.SPA.x86\_64.tar

```
2020-04-19T15:38:03.247424+05:30 isea ADE-SERVICE[1158]: [26999]:[info] application:install cars_instal
2020-04-19T15:38:09.066295+05:30 isea ADE-SERVICE[1158]: [26999]:[info] application:install cars_instal
2020-04-19T15:38:13.171615+05:30 isea ADE-SERVICE[1158]: [26999]:[info] application:install cars_instal
d with release key
2020-04-19T15:38:18.816986+05:30 isea ADE-SERVICE[1158]: [26999]:[info] application:install cars_instal
2020-04-19T15:38:18.877267+05:30 isea ADE-SERVICE[1158]: [26999]:[info] application:install cars_instal
2020-04-19T15:38:18.877604+05:30 isea ADE-SERVICE[1158]: [26999]:[info] application:install cars_instal
2020-04-19T15:38:18.878051+05:30 isea ADE-SERVICE[1158]: [26999]:[info] application:install cars_instal
2020-04-19T15:38:18.878254+05:30 isea ADE-SERVICE[1158]: [26999]:[info] application:install ci_util.c[3
2020-04-19T15:38:18.878517+05:30 isea ADE-SERVICE[1158]: [26999]:[info] application:install cars_instal
2020-04-19T15:38:18.878712+05:30 isea ADE-SERVICE[1158]: [26999]:[info] application:install cars_instal
2020-04-19T15:38:27.006433+05:30 isea ADE-SERVICE[1158]: [26999]:[info] application:install cars_instal
```

Executing patch install script patchinstall.sh from patch.zip

```
2020-04-19T15:38:27.209692+05:30 isea test: info:[patchinstall.sh] START PATCH INSTALL SCRIPT. PATCHDIR
2020-04-19T15:38:27.211274+05:30 isea test: info:[patchinstall.sh]
```

NEW PATCH VER: 3 PRIOR PATCH VER: 0

```
2020-04-19T15:38:27.213166+05:30 isea test: info:[patchinstall.sh] IRF-RABBITMQ-RUNTIME and IRF-CORE-EN
2020-04-19T15:38:27.214840+05:30 isea test: info:[patchinstall.sh] Remove IRF-Rabbitmq container
2020-04-19T15:38:27.753502+05:30 isea test: info:[patchinstall.sh] IRF-Rabbitmq container id -
2020-04-19T15:38:27.755172+05:30 isea test: info:[patchinstall.sh] No IRF-Rabbitmq container exist to r
2020-04-19T15:38:27.756631+05:30 isea test: info:[patchinstall.sh] Remove IRF-Core-Engine container
2020-04-19T15:38:27.781127+05:30 isea test: info:[patchinstall.sh] IRF-Core-Engine container id -
2020-04-19T15:38:27.783028+05:30 isea test: info:[patchinstall.sh] No IRF-Core-Engine container exist
2020-04-19T15:38:27.784724+05:30 isea test: info:[patchinstall.sh] IRF-RABBITMQ-RUNTIME and IRF-CORE-EN
2020-04-19T15:38:33.077501+05:30 isea test: info:[application:operation:cpmcontrol.sh] In Stop Monit
2020-04-19T15:38:33.197734+05:30 isea test: info:[application:operation:cpmcontrol.sh] Done Stop Monit
2020-04-19T15:38:34.289656+05:30 isea test: info:[application:operation:cpmcontrol.sh] Done Stop Monit
2020-04-19T15:38:34.671998+05:30 isea ADEOSShell[28278]: ADEAUDIT 2062, type=USER, name=M&T Log Process
2020-04-19T15:38:43.621160+05:30 isea test: info:[application:operation:adprobe.sh] adprobe:Stopping wm
2020-04-19T15:38:43.657769+05:30 isea test: info:[application:operation:adprobe.sh] adprobe:wmi probe i
2020-04-19T15:38:43.989085+05:30 isea test: info:[application:operation:syslogprobe.sh] syslogprobe:Sto
2020-04-19T15:38:44.019674+05:30 isea test: info:[application:operation:syslogprobe.sh] syslogprobe:sys
2020-04-19T15:38:44.367442+05:30 isea test: info:[application:operation:restprobe.sh] restprobe:Stoppin
2020-04-19T15:38:44.400103+05:30 isea test: info:[application:operation:restprobe.sh] restprobe:rest pr
2020-04-19T15:38:44.713844+05:30 isea test: info:[application:operation:agentprobe.sh] agentprobe:Stopp
2020-04-19T15:38:44.753547+05:30 isea test: info:[application:operation:agentprobe.sh] agentprobe:agent
2020-04-19T15:38:46.166418+05:30 isea test: info:[application:operation:appservercontrol.sh] Stopping I
2020-04-19T15:38:46.168374+05:30 isea ADEOSShell[29231]: ADEAUDIT 2062, type=USER, name=Application ser
```

interface=CLI, detail=Application server stopped

<#root>

```
2020-04-19T15:41:37.224949+05:30 isea test: info:[patchinstall.sh] ISE 10.1.0.0
```

patch 3 installFileSystem() INVOKED

```
2020-04-19T15:41:37.245321+05:30 isea test: info:[patchinstall.sh] Updating patched file: /storeddata/I
2020-04-19T15:41:37.251672+05:30 isea test: info:[patchinstall.sh] Updating patched file: /storeddata/I
2020-04-19T15:41:37.258874+05:30 isea test: info:[patchinstall.sh] Updating patched file: /storeddata/I
2020-04-19T15:41:37.265939+05:30 isea test: info:[patchinstall.sh] Updating patched file: /storeddata/I
2020-04-19T15:41:37.273866+05:30 isea test: info:[patchinstall.sh] Updating patched file: /storeddata/I
```

```
2020-04-19T15:41:37.280143+05:30 isea test: info:[patchinstall.sh] Updating patched file: /storeddata/I
2020-04-19T15:41:37.288008+05:30 isea test: info:[patchinstall.sh] Updating patched file: /storeddata/I
2020-04-19T15:41:37.295128+05:30 isea test: info:[patchinstall.sh] Updating patched file: /storeddata/I
2020-04-19T15:41:37.302031+05:30 isea test: info:[patchinstall.sh] Updating patched file: /storeddata/I
2020-04-19T15:41:37.308615+05:30 isea test: info:[patchinstall.sh] Updating patched file: /storeddata/I
.0-156.jar
```

<#root>

Broadcast message from root@isea (Sun Apr 19 15:50:40 2020):

**Trying to stop processes gracefully. Reload takes approximately 3 mins**

Broadcast message from root@isea (Sun Apr 19 15:51:01 2020):

The system is going down for reboot NOW

Session terminated, killing shell... ...killed.

## 關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。