

Cisco ISE Patch Installation:

Cisco releases ISE patches on a semi-regular basis. These patches contain bug fixes and, when necessary, security fixes. When you apply a patch to ISE, you do not need to completely re-install the software. As the name patch indicates, you will simply be applying a file that will perform CRUD (create, read, update, and delete) operations against the current software installed. Also check to make sure your patch is cumulative, if going from an earlier patch to a later patch. Cisco ISE patches are normally cumulative, meaning that installing patch 11 will include all the bug fixes from patch 1 to patch 10. Cisco ISE allows you to perform patch installation and rollback from CLI or GUI. Always check the release notes to make sure there is nothing in the patch that will interfere with your configuration. Always install the latest patch before attempting an upgrade. The patches apply to nodes in the following order:

Primary Administration Node

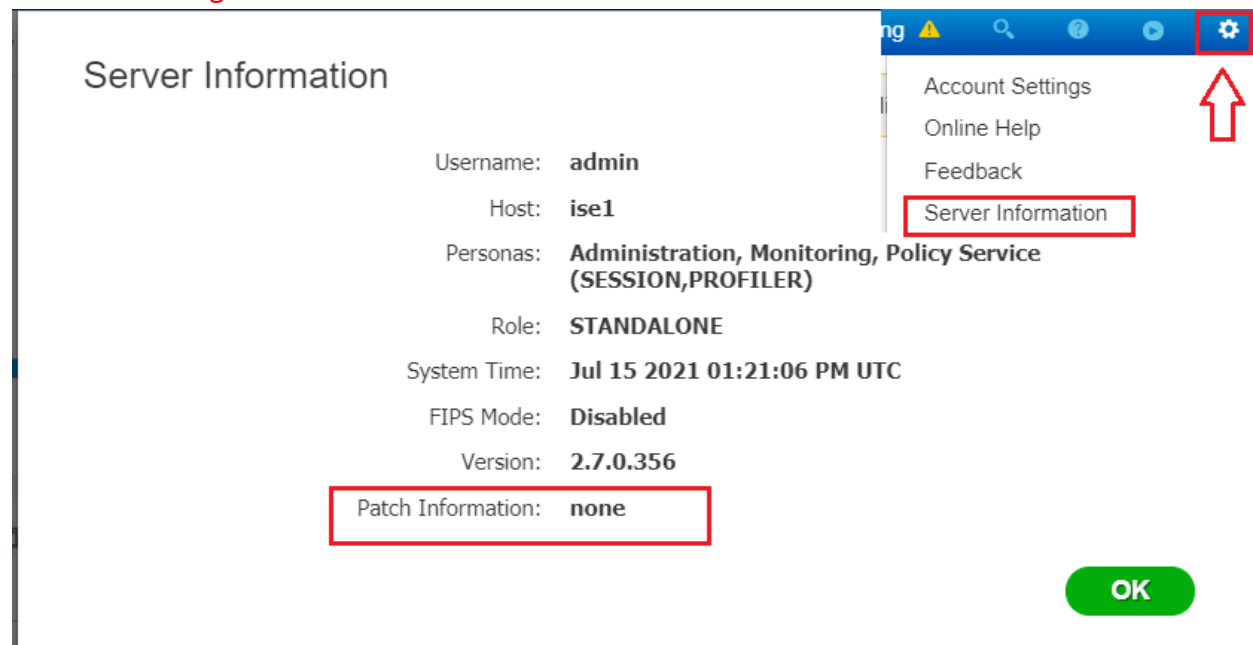
Secondary Administration Node

Primary Monitoring Node

Secondary Monitoring Node

Policy Service Nodes

Before installing Patches let's check out the **Server Information** navigate to right hand top corner click on **gear** icon click on **Server Information** **Patch Information: none**.



In order to download the ISE Patches from Cisco.com, Navigate to **Downloads > Products > Security > Access Control and Policy > Identity Services Engine > Identity Services Engine Software**.



<https://software.cisco.com/download/home/283801620/type/283802505/release/2.7.0>

Identity Services Engine Software

Release 2.7.0


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[Release Notes for 2.7.0](#)

File Information	Release Date	Size	
Cisco Identity Services Engine Software Patch Version 2.7.0.356-Patch4-21060807 Apply this patch to an existing ISE 2.7.0 installation.	11-Jun-2021	2358.04 MB	↓ 🛒
 ise-patchbundle-2.7.0.356-Patch4-21060807.SPA.x86_64.tar.gz Advisories 🔗			
Cisco Identity Services Engine Software Patch Version 2.7.0.356-Patch3-21020102 Apply this patch to an existing ISE 2.7.0 installation.	04-Feb-2021	2151.44 MB	↓ 🛒
 ise-patchbundle-2.7.0.356-Patch3-21020102.SPA.x86_64.tar.gz Advisories 🔗			

To apply the patch, login to your Primary Administration Node (PAN) web interface. Navigate to **Administration > System > Maintenance > Patch Management**. Click **Install**.

← → ↻ ⚠ Not secure | 192.168.100.210/admin/#administration/administration_system/administration_

 **Identity Services Engine**




[Home](#) ▶ [Context Visibility](#) ▶ [Operations](#) ▶ [Policy](#) ▶ **Administration**

System ▶ [Identity Management](#) ▶ [Network Resources](#) ▶ [Device Portal Management](#) ▶ [pxGrid Services](#) ▶ [Feed Ser](#)

[Deployment](#) ▶ [Licensing](#) ▶ [Certificates](#) ▶ [Logging](#) ▶ **Maintenance** ▶ [Upgrade](#) ▶ [Backup & Restore](#) ▶ [Admin Acces](#)

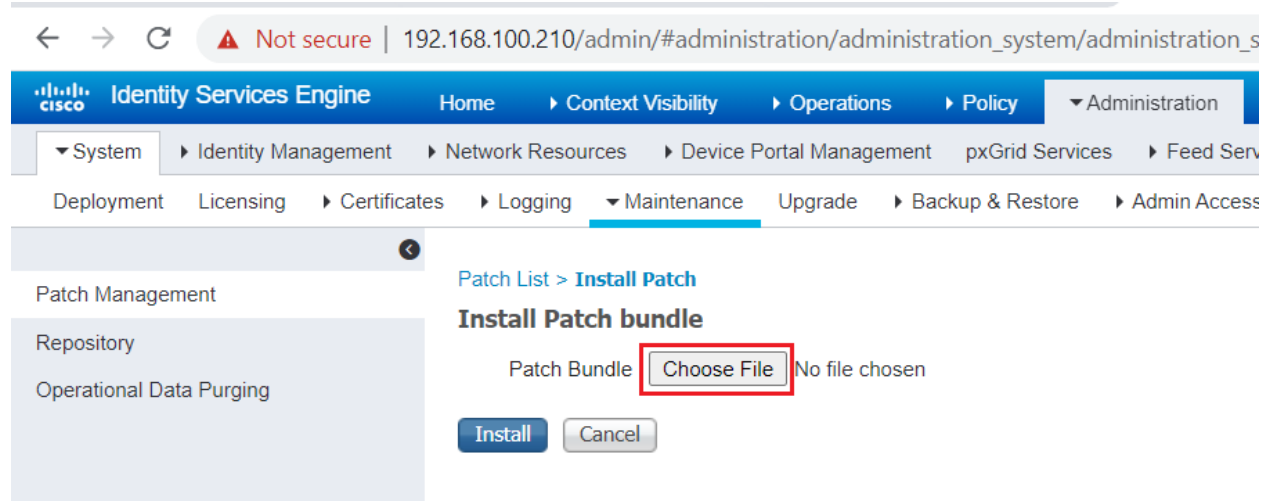
Patch Management
[Repository](#)
[Operational Data Purging](#)

Installed Patches

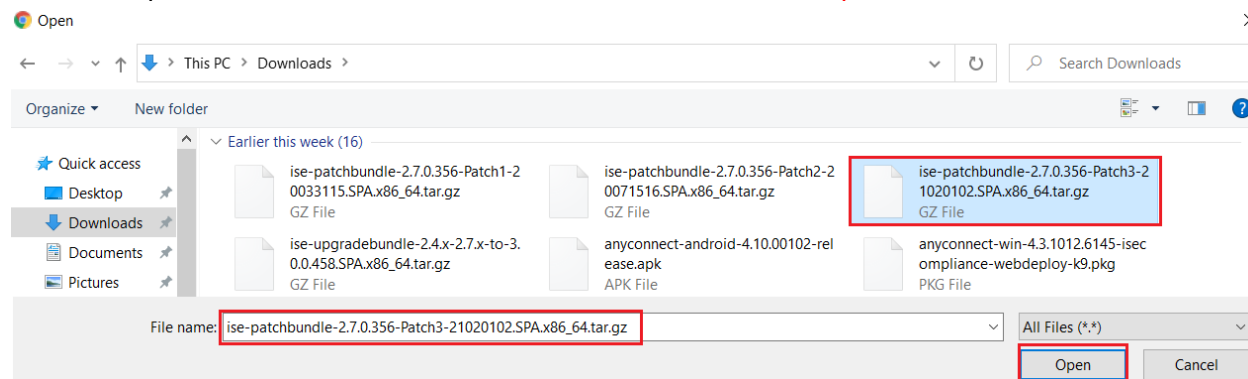
 **Install**  **Rollback**  **Show Node Status**

Patch Version

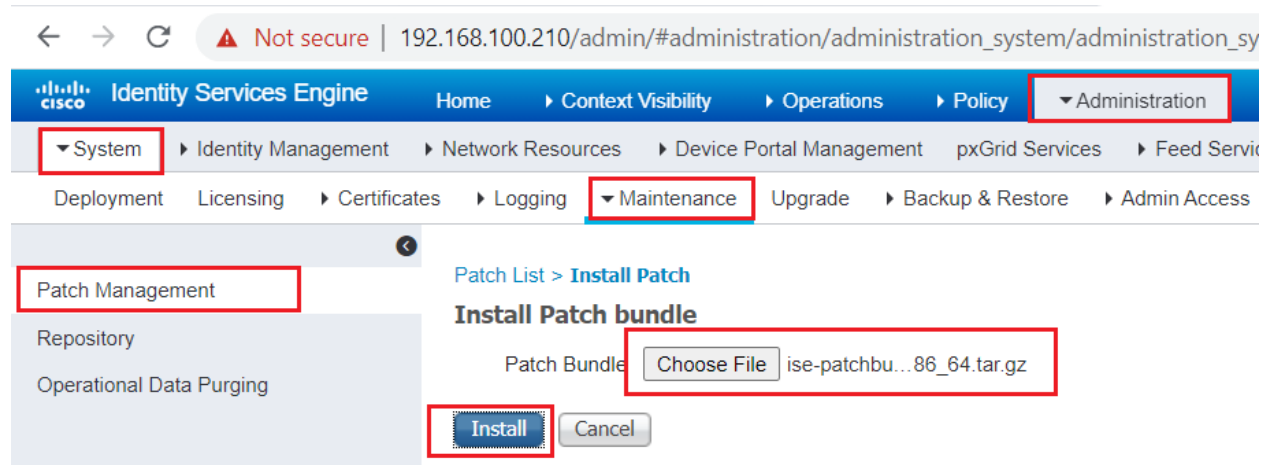
Click **“Choose File”** it will open new window of your system.



Select the patch file downloaded from cisco website and Click **Open**.



When the Patch Bundle File is selected click on **Install** button to start the process.



Once it finishes uploading you'll be kicked out of Cisco ISE back to the login screen. It's advisable to wait at this screen for a few minutes before signing back in or you may get kicked back out as proceeds through the patch install. It took around 10 minutes for the install to complete and allow me to sign back in.



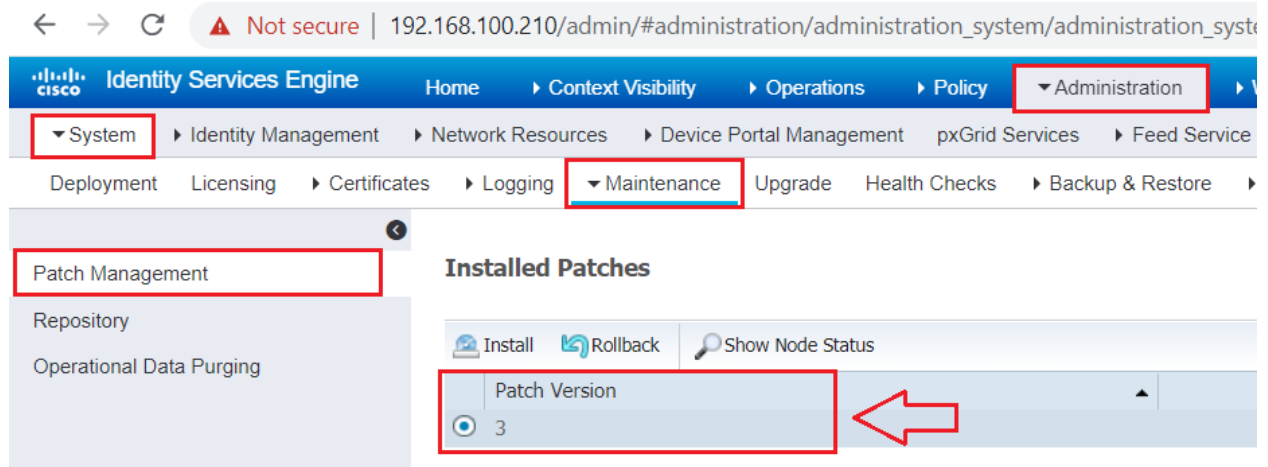
You can keep track of a node's progress by logging into the CLI via SSH and executing the command "**show application status ise**".

```
Session Manager 192.168.100.210 (4) x
ise1/admin# show application status ise
```

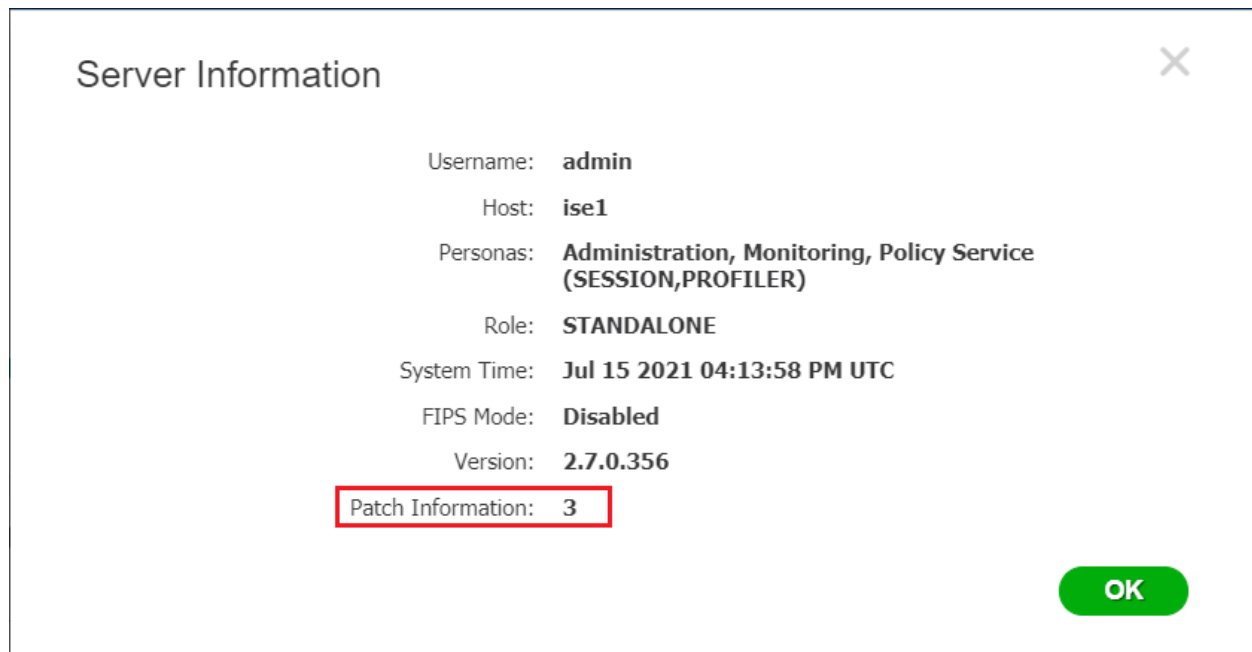
ISE PROCESS NAME	STATE	PROCESS ID
Database Listener	not running	
Application Server	not running	
Profiler Database	not running	
ISE Indexing Engine	not running	
AD Connector	not running	
M&T Session Database	not running	
M&T Log Processor	not running	
Certificate Authority Service	not running	
EST Service	not running	
SXP Engine Service	disabled	

Patch Verification:

You can verify that the patch installed successfully by navigating back to **Administration -> System -> Maintenance -> Patch Management** and looking to see if the Patch is listed under Installed Patches.



Let's check out the Server information again navigate to right hand top corner click on **gear** icon click on Server Information **Patch Information: none**.



login to the CLI. Enter the command **show version**, you should be able to confirm successful installation of the ISE patch.

```
ise1/admin# show version

Cisco Application Deployment Engine OS Release: 3.0
ADE-OS Build Version: 3.0.7.071
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       : 2.7.0.356
Build Date    : Thu Nov 14 02:21:59 2019
Install Date  : Sun Nov  8 11:06:19 2020

Cisco Identity Services Engine Patch
-----
Version       : 3
Install Date  : Thu Jul 15 15:33:28 2021
```

Rollback Patches:

In order to roll back the ISE patches **Login to ISE GUI** and navigate to **Administration > System > Maintenance > Patch Management** > select the required patch and click **Rollback**.

The screenshot displays the ISE GUI's Patch Management section. The breadcrumb navigation path is **Administration > System > Maintenance > Patch Management**. The **Installed Patches** table shows a patch with version **3** selected. A red arrow points to the **Rollback** button. A confirmation dialog box appears, asking "Are you sure you want to rollback the selected patch? Note that this will log you out and the application may restart during the process." with **OK** and **Cancel** buttons. A red arrow points to the **OK** button. Below the dialog, a red notification banner states "Patch rollback initiated..." with an **OK** button. A red arrow points to this **OK** button.

Patches Installation CLI:

ise1/admin# **patch install ise-patchbundle-2.7.0.356-Patch3-21020102.SPA.x86_64.tar.gz FTP-Repo**

```
192.168.100.210 (9) x
ise1/admin#
ise1/admin# patch install ise-patchbundle-2.7.0.356-Patch3-21020102.SPA.x86_64.t
ar.gz FTP-Repo
% Warning: Patch will be installed only on this node. Install using Primary Admi
nistration node GUI to install on all nodes in deployment. Continue? (yes/no) [y
es] ?
```

ise1/admin# **patch remove ise 3**

```
ise1/admin# patch remove ise 3
Continue with application patch uninstall? [y/n] y
% Warning: Patch will be removed only from this node. Remove patch using Primary
Administration node GUI to remove from all nodes in deployment. Continue? (yes/
no) [yes] ? yes
```

login to the CLI. Enter the command **show version**, you should be able to confirm successful installation of the ISE patch.

```
ise1/admin# show version

Cisco Application Deployment Engine OS Release: 3.0
ADE-OS Build Version: 3.0.7.071
ADE-OS System Architecture: x86_64

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