Maintenance

- Upgrade procedures, on page 1
- Replace SD card, on page 8
- Reconfigure/Redeploy a sensor, on page 9

Upgrade procedures

Upgrade through the Cisco Cyber Vision sensor management extension

Before updating IOx sensors, the Cisco Cyber Vision sensor management extension must be up-to-date.

It is possible to select which sensors to update. The update status will be visible in the Management jobs page.

Update the sensor management extension

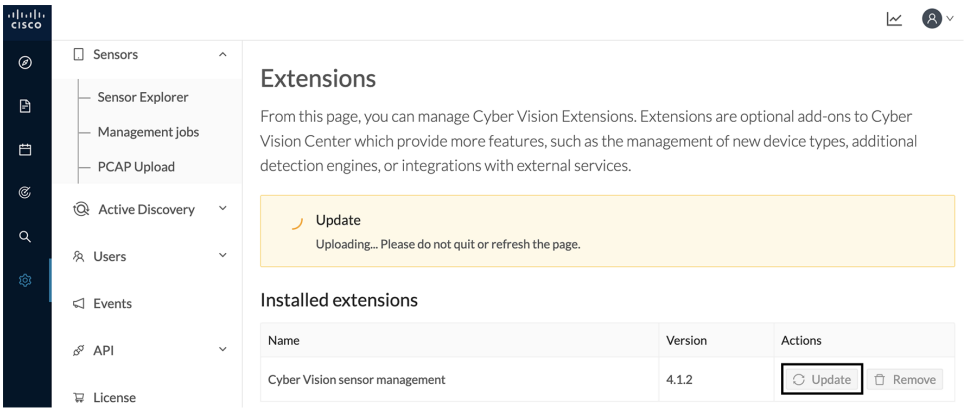
The Cisco Cyber Vision sensor management extension must be up-to-date to update IOx sensors.

Procedure

Step 1 Retrieve the sensor management extension file (i.e. CiscoCyberVision-sensor-management-<version>.ext) on cisco.com.

Step 2 In Cisco Cyber Vision, navigate to Admin > Extensions.

Step 3 Click **Update** to browse the new version of the extension file.



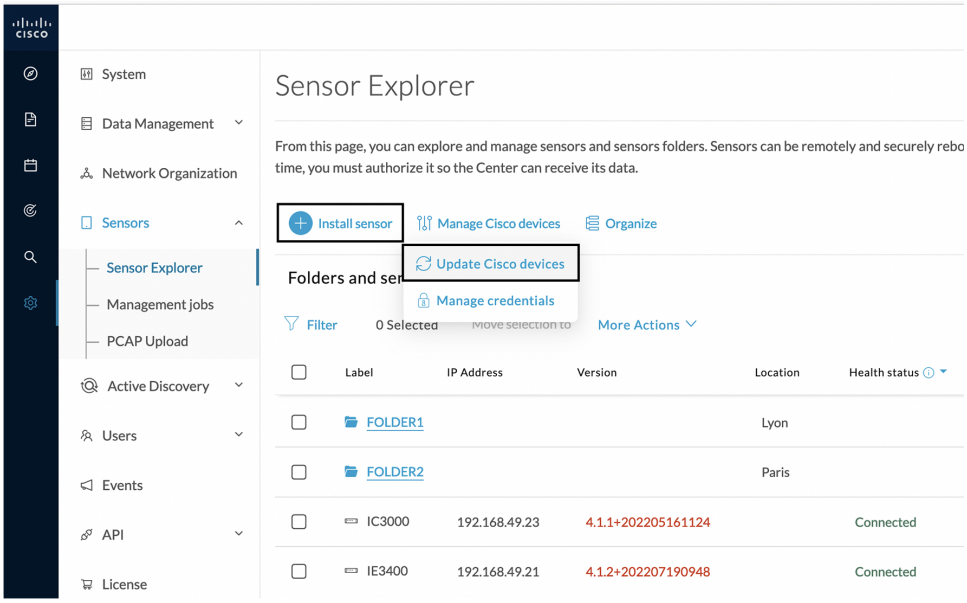
Update the sensors

Procedure

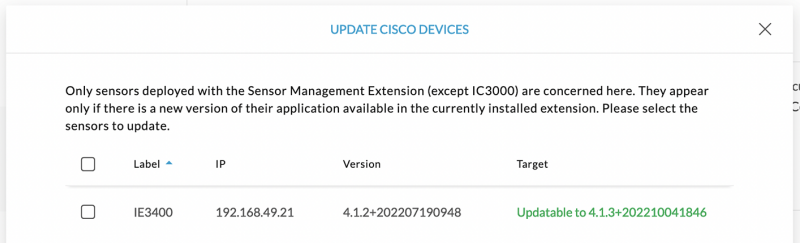
Step 1 In Cisco Cyber Vision, navigate to Admin > Sensors > Sensor Explorer.

Sensors that are not up-to-date have their version displayed in red.

Step 2 Click **Install sensor**, then **Update Cisco devices**.



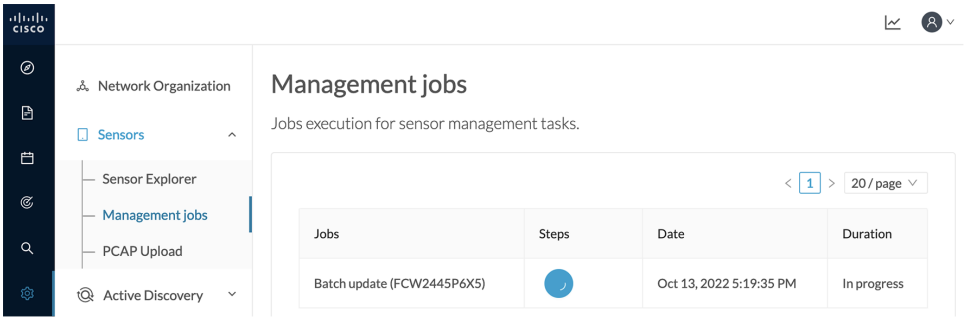
The update Cisco devices window pops up listing all sensors that have been deployed with the sensor management extension.



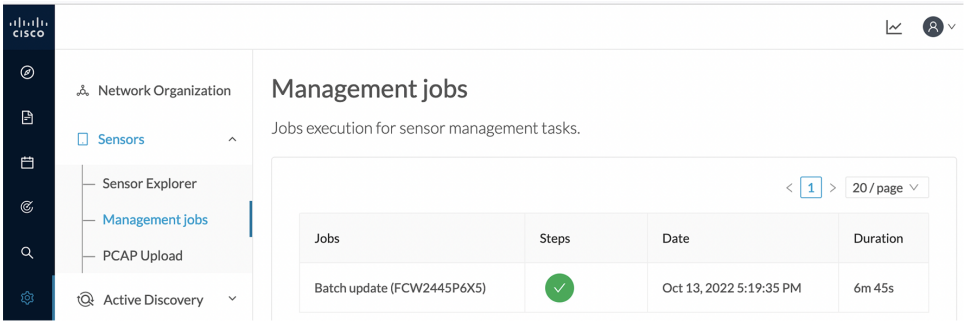
Step 3 Select the sensors you want to update.

Step 4 Click **Update**.

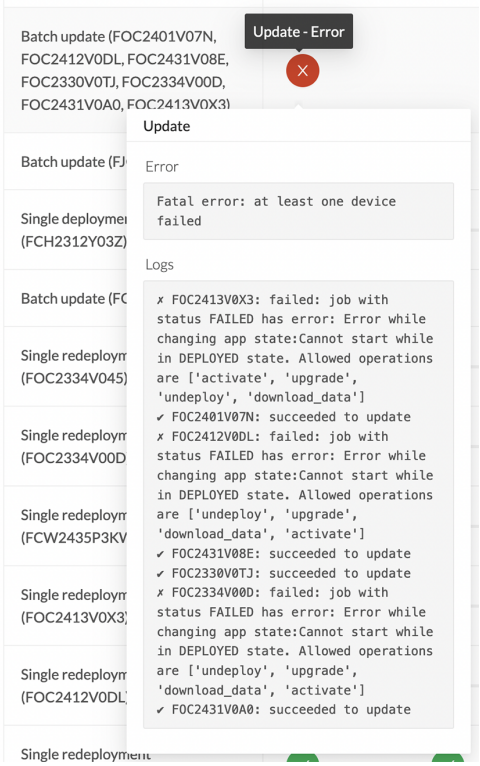
The sensors' update status appear in the Management jobs page in batches per sensor type and of maximum ten sensors per batch.



Herebelow the management jobs indicate that the batch of sensors updated successfully.



If the batch update fails, click the red update error icon to see logs.



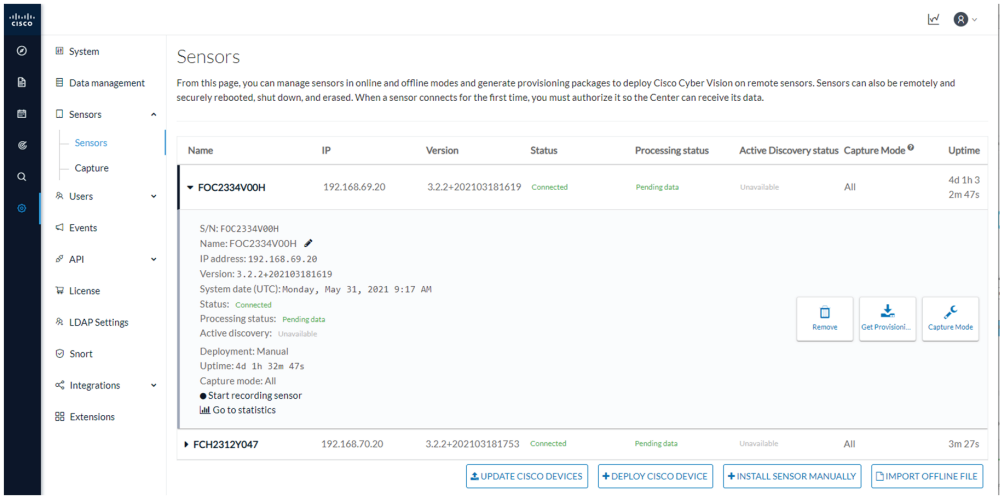
Upgrade through the IOx Local Manager

The following section explains how to upgrade the sensor through the IOx Local Manager.

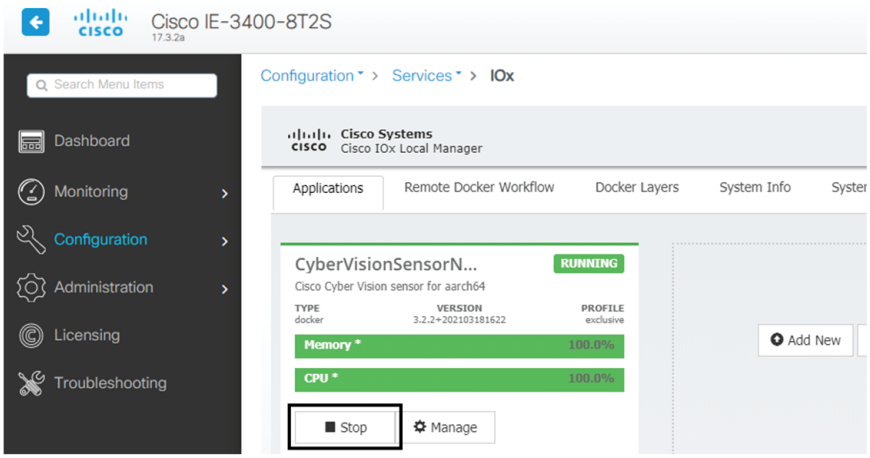
Note In the case of Cisco Cyber Vision upgrade for a Catalyst 9x00 from a release 4.1.2 or lower to a release 4.1.3, the update will fail due to the addition of the RSPAN option. The sensor application must be removed and deployed again.

In the example below, the sensor is upgraded from Cisco Cyber Vision version 3.2.2 to version 3.2.3.

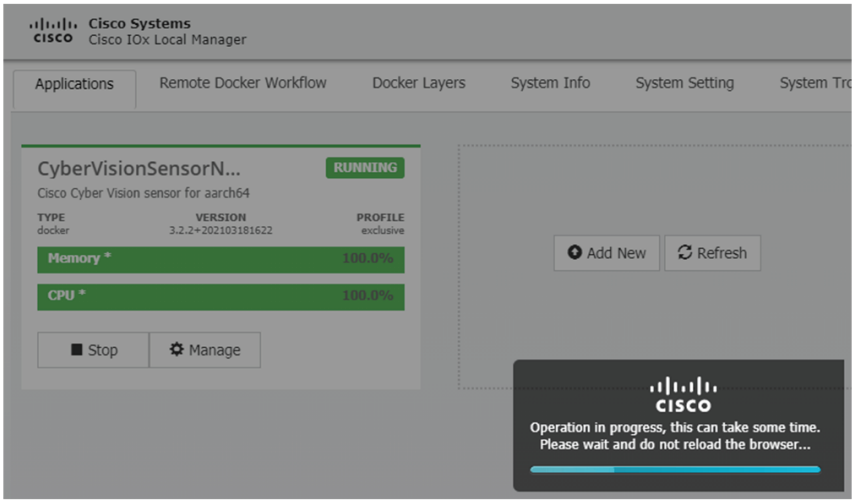
Figure 1: The sensor in version 3.2.2 in the Sensors administration page of Cisco Cyber Vision



1. Access the IOx Local Manager.
2. Stop the application.

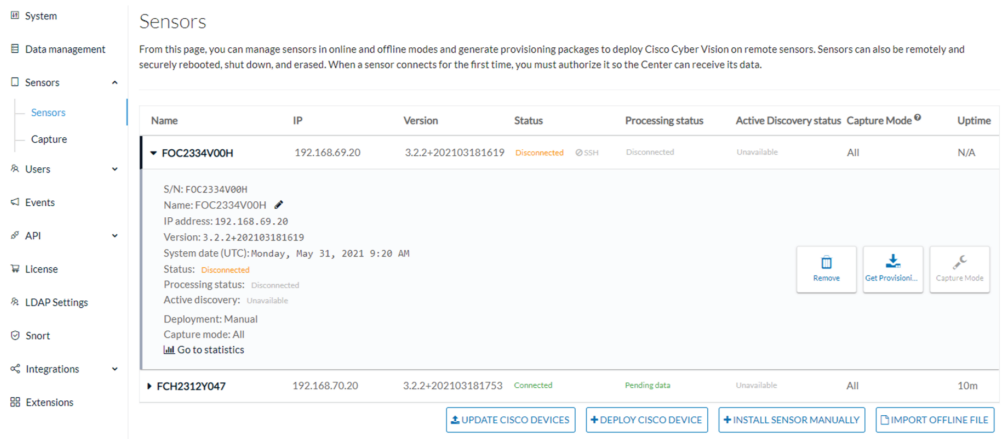


The operation takes a few moments.



The application status switches to STOPPED.

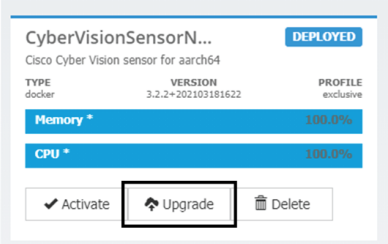
In Cisco Cyber Vision, the sensor status switches to Disconnected.



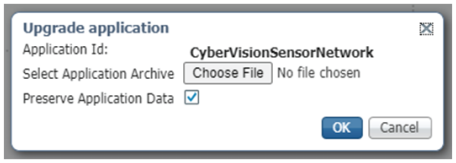
3. In the IOx Local Manager, click the **Deactivate** button.

   The application status moves to DEPLOYED.

4. Click **Upgrade**.

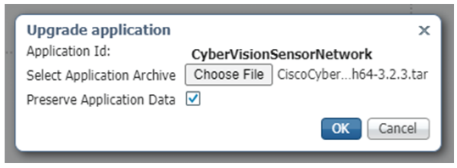


The pop up Upgrade application appears.

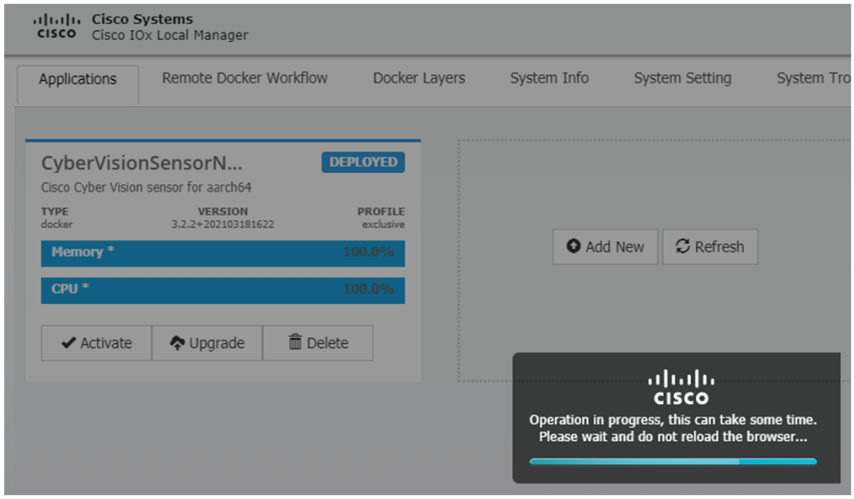


5. Select the **Preserve Application Data** option.
6. Select the new version of the application archive file.

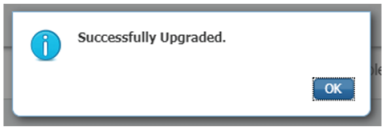
   e.g. CiscoCyberVision-IOx-aarch64-3.2.3.tar



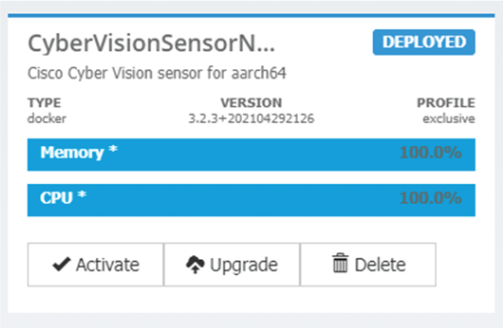
The operation takes a few moments.



A message indicating that the sensor has been successfully upgraded is displayed.



7. Check the number of the new version.
8. Click **Activate**.



9. Check configurations.

   It can happen that network configurations are lost during the upgrade. If they are, refer to Configure the sensor virtual application in the procedure with the Local Manager **corresponding to the switch used and do as explained.**

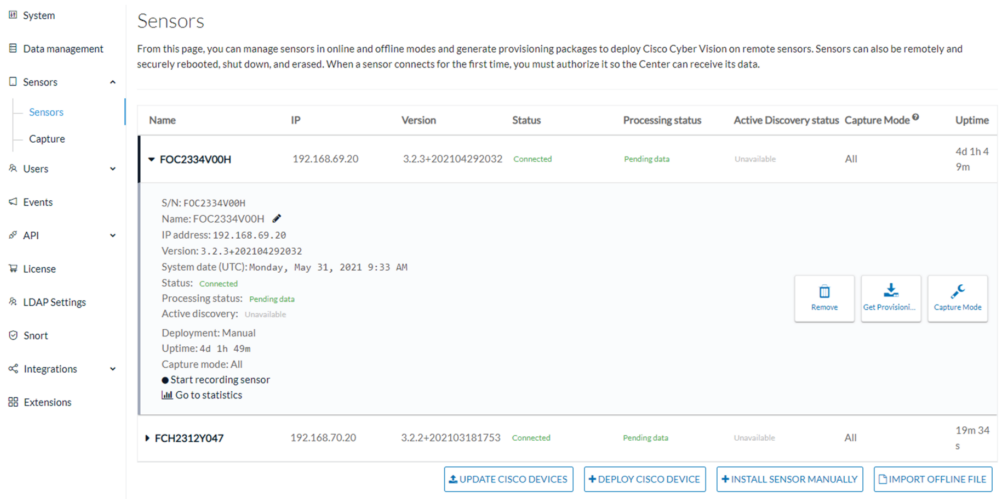
10. Click the **Activate App** button.

    The application status moves to ACTIVATED.

11. Click the **Start** button.

    The application status changes to RUNNING.

    In Cisco Cyber Vision, the sensor is upgraded from version 3.2.2 to 3.2.3 and its status moves to Connected.



Replace SD card

This section explains how to replace a SD card on a Cisco IE3x00.

Procedure

Step 1 Connect to the device CLI and use the following commands to disable IoX:

```
configure terminal
no iox
exit
```

Step 2 Replace the SD card.

Step 3 Format the SD card using the following command:

```
format sdflash: ext4
```

```
IE340CCV#format sdflash: ext4
Format operation may take a while. Continue? [confirm]
Format operation will destroy all data in "sdflash:".  Continue? [confirm]
format completed with no errors

Format of sdflash: complete
IE340CCV#
```

Step 4 Enable IOx using the following command:

```
configure terminal
iox
```

```
IE340CCV#
IE340CCV#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
IE340CCV(config)#iox
Warning: Do not remove SD flash card when IOx is enabled or errors on SD device could occur.

IE340CCV(config)#
```

Step 5 Follow the instructions described in the following section to redeploy the sensor.

What to do next

Reconfigure/Redeploy a sensor, on page 9

Reconfigure/Redeploy a sensor

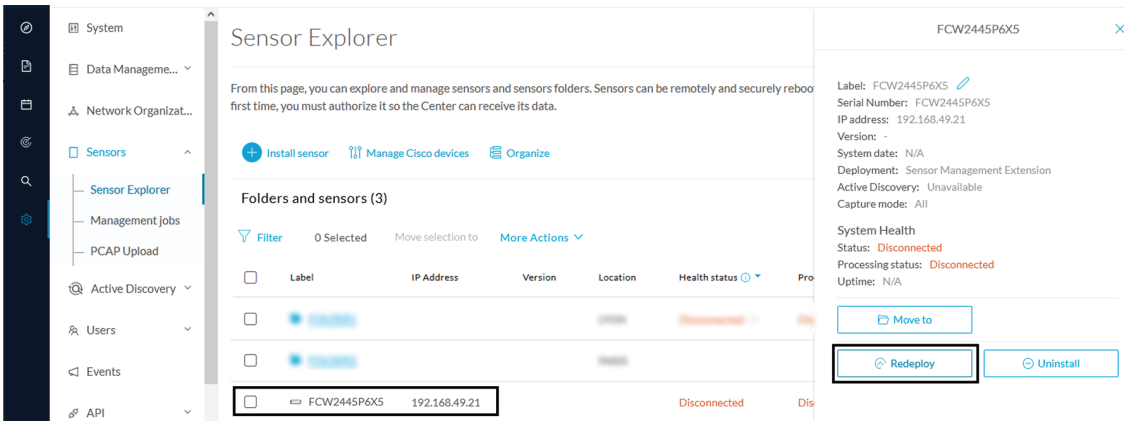
The Redeploy button is used when you need to replace a sensor model with another one keeping the same network configurations (e.g. replacing a Cisco IE3400 with a Cat 9300), change configurations, or if you need to reconfigure the sensor (e.g. to enable Active Discovery).

To do so:

Procedure

Step 1 On the Sensor Explorer page, click the sensor to reconfigure/redeploy. The sensor right side panel appears.

Step 2 Click **Redeploy**.

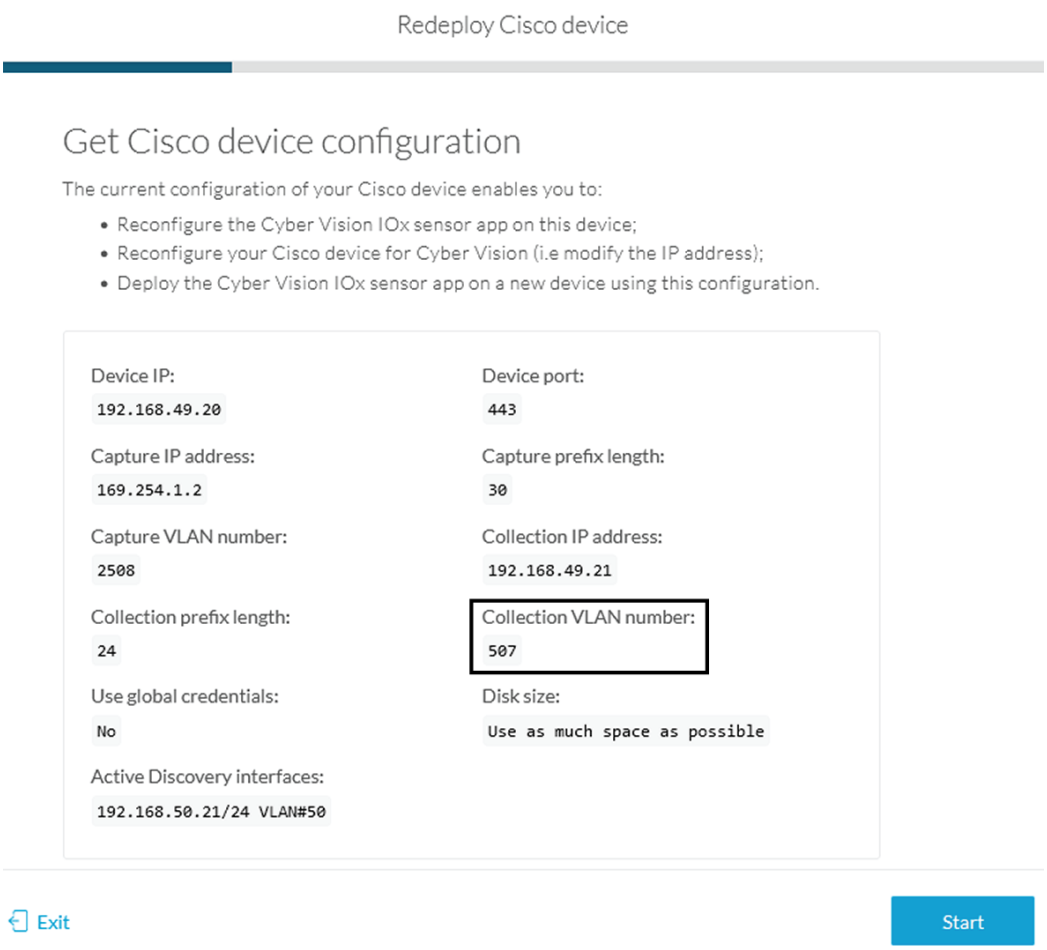


A pop up asking to confirm the redeployment of the sensor appears.

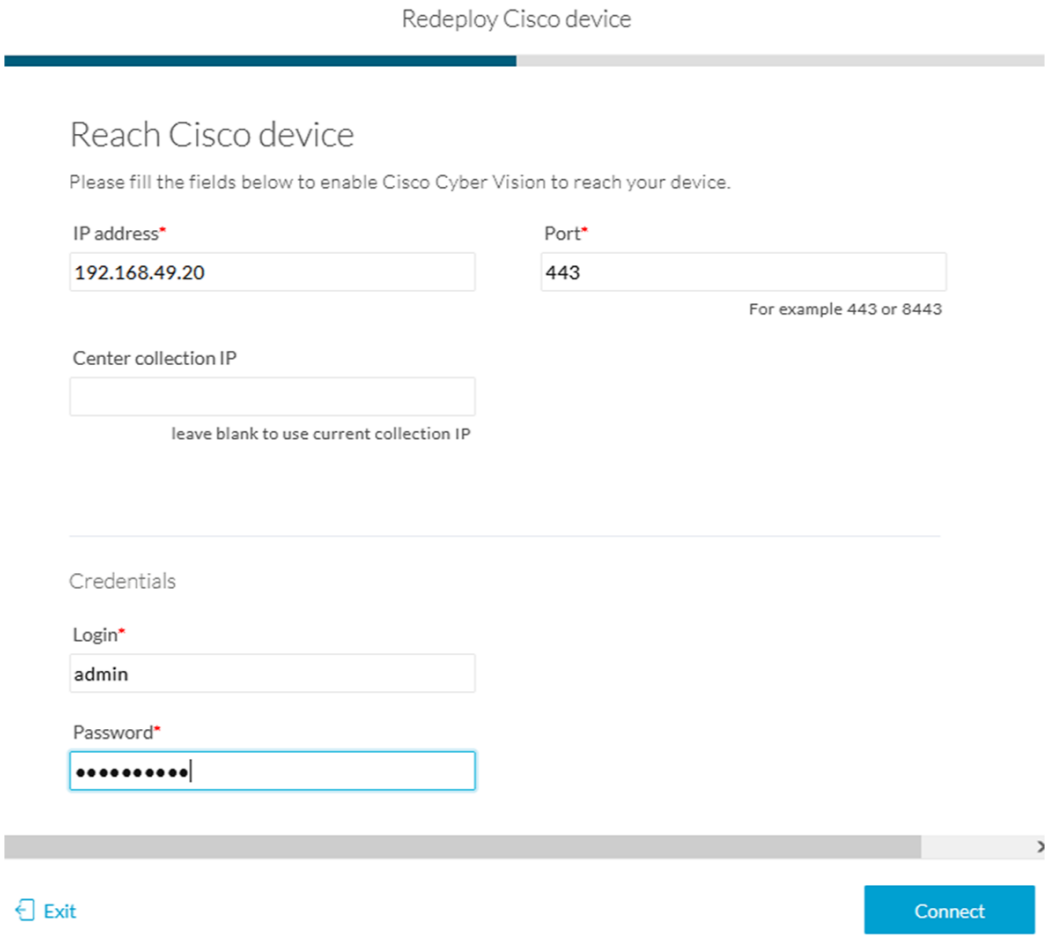
Step 3 Click **OK** to proceed.

A summary of the sensor configuration is displayed. In this example, we're going to change the Collection VLAN number.

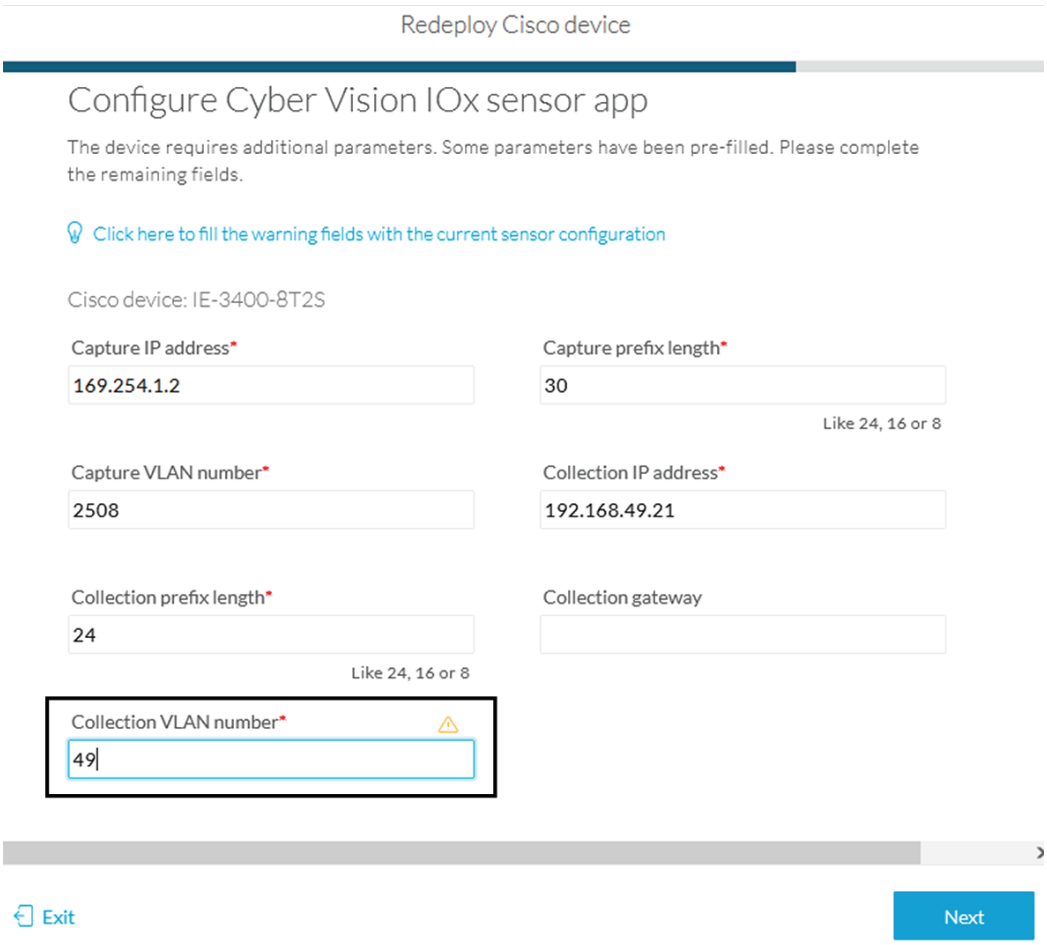
Step 4 Click **Start**.



Step 5 Enter the credentials to reach the sensor to redeploy and click **Connect**.



Step 6 Click the blue link to fill the warning fields with the current sensor configuration. We change the Collection VLAN number value to 49.



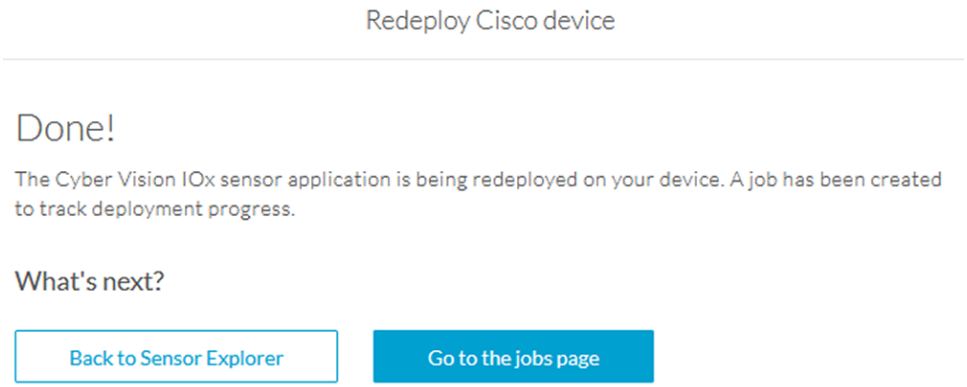
Step 7 Click **Next**.

Step 8 You can enable Active Discovery selecting Passive and Active Discovery.

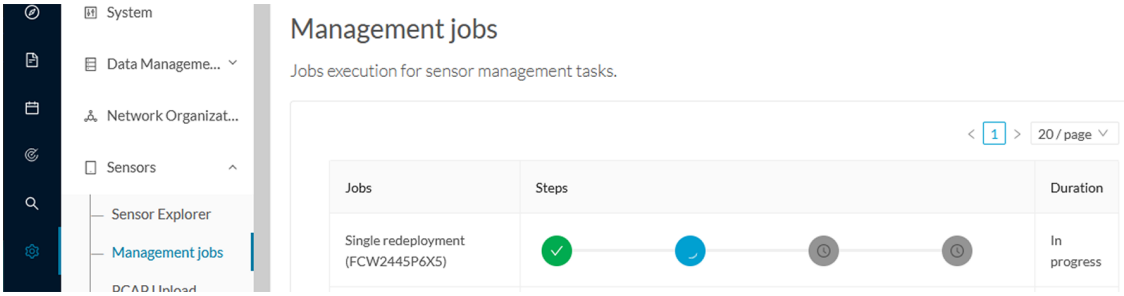
Step 9 Click Deploy.

A message saying that the sensor is being redeployed appears. You can either go the jobs page or go back to the Sensor Explorer page.

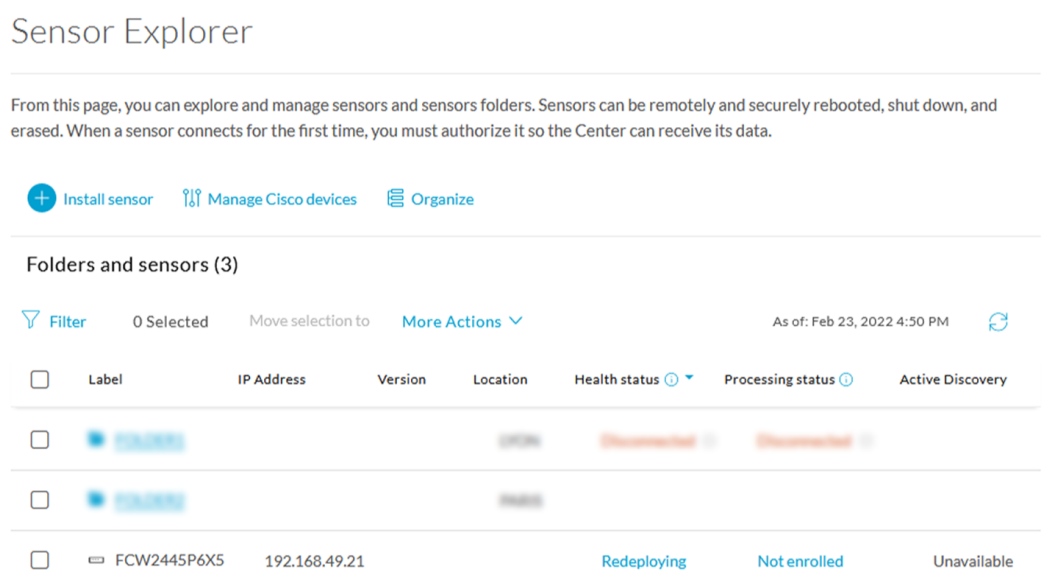
Step 10 Click **Go to the jobs page**.



You are redirected to the Management jobs page to see the redeployment advancement. This can take several minutes.



If you go back to the Sensor Explorer page, you will see that the sensor is in Redeploying status.



Once the redeployment is finished, the sensor will switch status to connected and the Active Discovery to Enabled.