



## Upgrade procedures

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### 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.

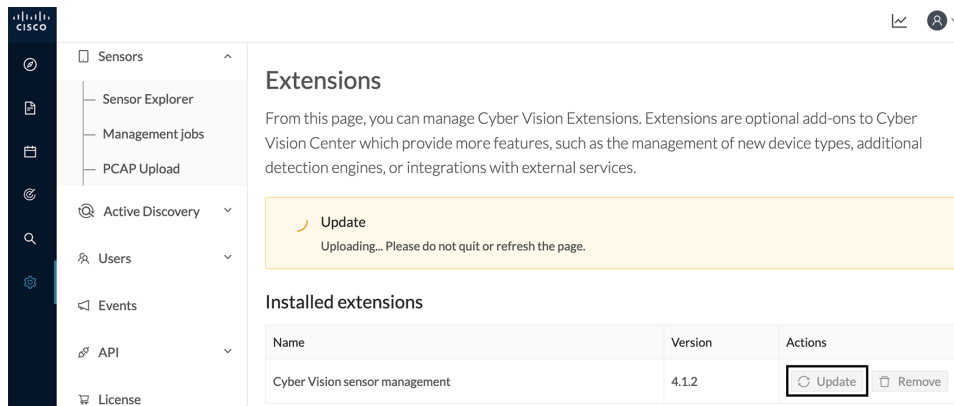
#### Update the sensor management extension

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

##### Procedure

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- 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.



**Extensions**

From this page, you can manage Cyber Vision Extensions. Extensions are optional add-ons to Cyber Vision Center which provide more features, such as the management of new device types, additional detection engines, or integrations with external services.

**Update**  
Uploading... Please do not quit or refresh the page.

**Installed extensions**

Name	Version	Actions
Cyber Vision sensor management	4.1.2	<a href="#">Update</a> <a href="#">Remove</a>

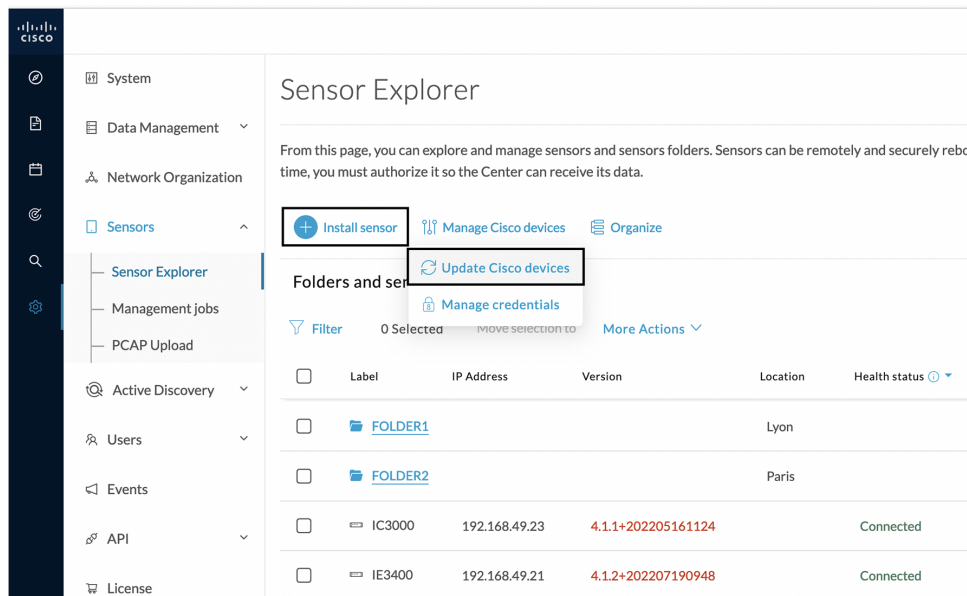
## Update the sensors

### 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**.



**Sensor Explorer**

From this page, you can explore and manage sensors and sensors folders. Sensors can be remotely and securely rebooted, you must authorize it so the Center can receive its data.

[+ Install sensor](#) [Manage Cisco devices](#) [Organize](#)

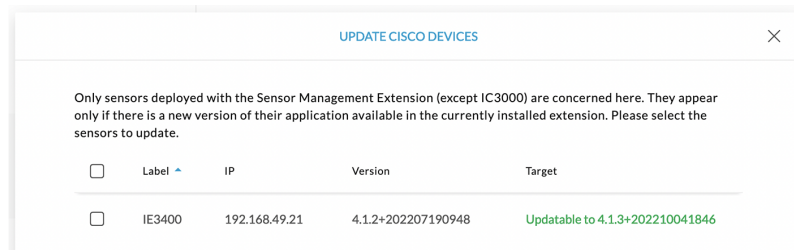
[Update Cisco devices](#) [Manage credentials](#)

**Folders and sensors**

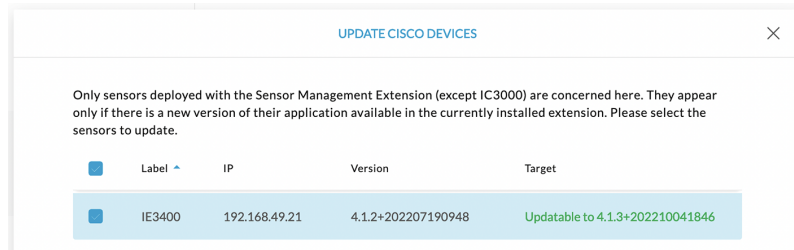
Filter 0 Selected [Move selection to](#) [More Actions](#)

	Label	IP Address	Version	Location	Health status
<input type="checkbox"/>	<a href="#">FOLDER1</a>			Lyon	
<input type="checkbox"/>	<a href="#">FOLDER2</a>			Paris	
<input type="checkbox"/>	IC3000	192.168.49.23	4.1.1+202205161124		Connected
<input type="checkbox"/>	IE3400	192.168.49.21	4.1.2+202207190948		Connected

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

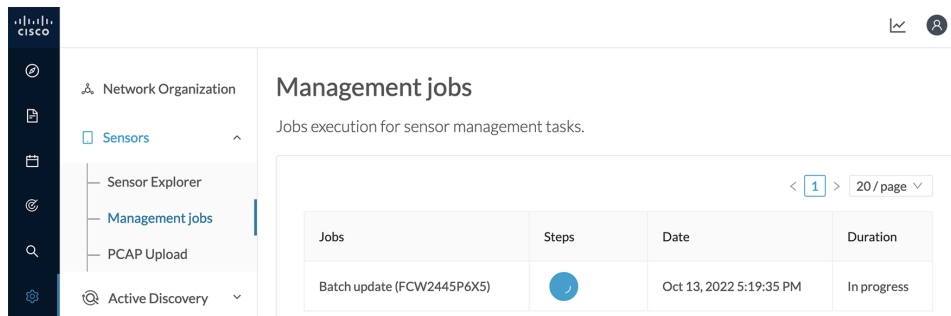


**Step 3** Select the sensors you want to update.

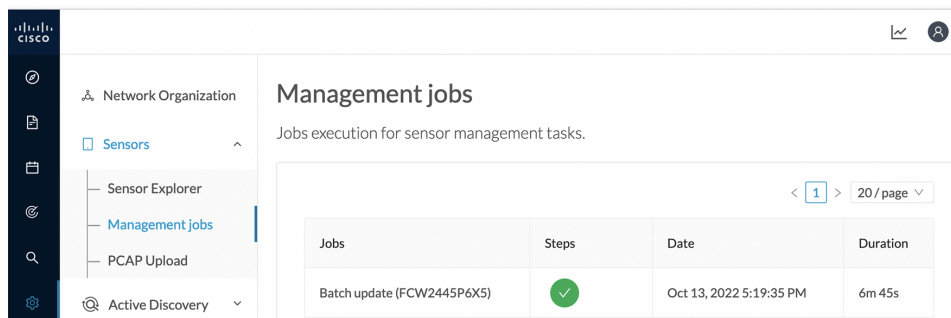


**Step 4** Click **Update**.

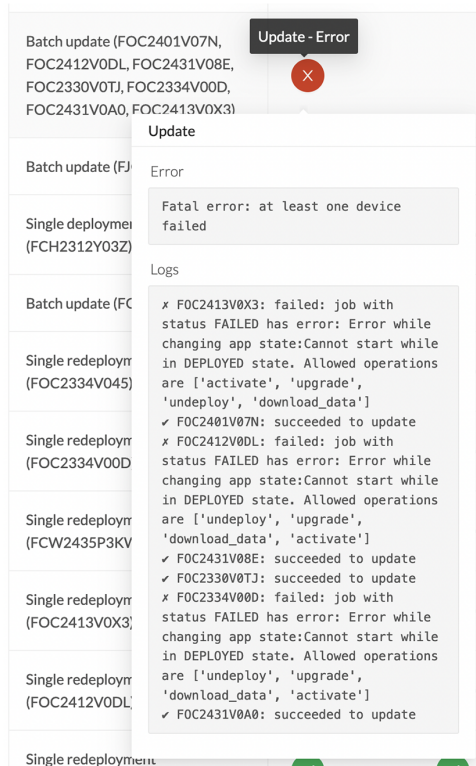
The sensors' update status appear in the Management jobs page in batches per sensor type and of maximum ten sensors per batch.



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.



Batch update (FOC2401V07N, FOC2412V0DL, FOC2431V08E, FOC2330V0TJ, FOC2334V00D, FOC2431V0A0, FOC2413V0X3)

**Update - Error**

**Update**

**Error**

Fatal error: at least one device failed

**Logs**

```
x FOC2413V0X3: failed: job with
status FAILED has error: Error while
changing app state:Cannot start while
in DEPLOYED state. Allowed operations
are ['activate', 'upgrade',
'undeploy', 'download_data']
✓ FOC2401V07N: succeeded to update
x FOC2412V0DL: failed: job with
status FAILED has error: Error while
changing app state:Cannot start while
in DEPLOYED state. Allowed operations
are ['undeploy', 'upgrade',
'download_data', 'activate']
✓ FOC2431V08E: succeeded to update
✓ FOC2330V0TJ: succeeded to update
x FOC2334V00D: failed: job with
status FAILED has error: Error while
changing app state:Cannot start while
in DEPLOYED state. Allowed operations
are ['undeploy', 'upgrade',
'download_data', 'activate']
✓ FOC2431V0A0: succeeded to update
```

## 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 an IR8340 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

The screenshot displays the 'Sensors' administration page in Cisco Cyber Vision. The page title is 'Sensors' and includes a brief description: 'From this page, you can manage sensors in online and offline modes and generate provisioning packages to deploy Cisco Cyber Vision on remote sensors. Sensors can also be remotely and securely rebooted, shut down, and erased. When a sensor connects for the first time, you must authorize it so the Center can receive its data.'

Name	IP	Version	Status	Processing status	Active Discovery status	Capture Mode	Uptime
FOC2334V00H	192.168.69.20	3.2.2+202103181619	Connected	Pending data	Unavailable	All	4d 1h 3m 47s
FCH2312Y047	192.168.70.20	3.2.2+202103181753	Connected	Pending data	Unavailable	All	3m 27s

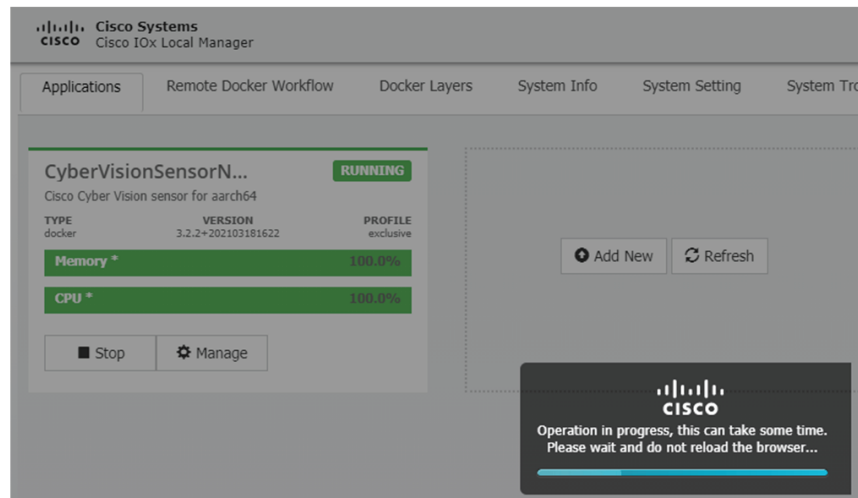
Details for FOC2334V00H:

- S/N: FOC2334V00H
- Name: FOC2334V00H
- IP address: 192.168.69.20
- Version: 3.2.2+202103181619
- System date (UTC): Monday, May 31, 2021 9:17 AM
- Status: Connected
- Processing status: Pending data
- Active discovery: Unavailable
- Deployment: Manual
- Uptime: 4d 1h 32m 47s
- Capture mode: All
- Start recording sensor
- Go to statistics

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

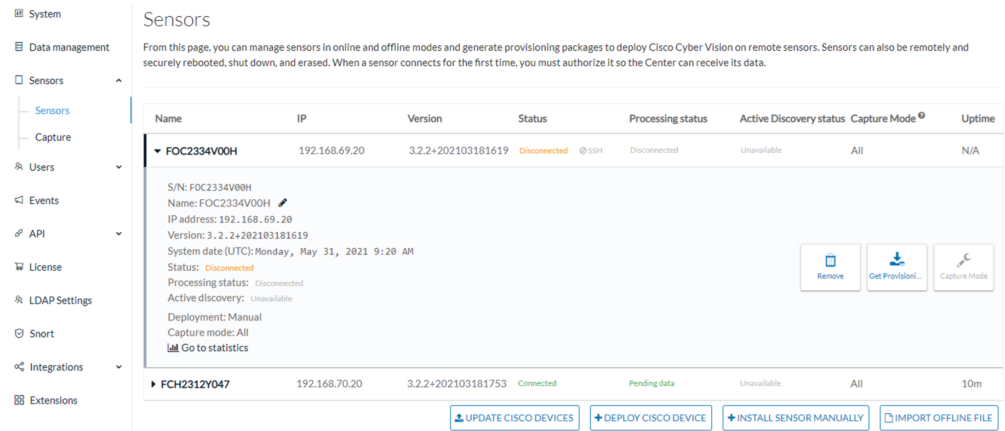
The screenshot shows the Cisco IOx Local Manager interface. The page title is 'Cisco IE-3400-8T2S 17.3.2a'. The navigation menu includes Dashboard, Monitoring, Configuration, Administration, Licensing, and Troubleshooting. The main content area shows 'Configuration > Services > IOx'. Under 'Applications', there is a 'CyberVisionSensorN...' application with a 'RUNNING' status. The application details show 'TYPE: docker', 'VERSION: 3.2.2+202103181622', and 'PROFILE: exclusive'. Resource usage is shown as 'Memory \* 100.0%' and 'CPU \* 100.0%'. There are 'Stop' and 'Manage' buttons at the bottom.

The operation takes a few moments.



The application status switches to STOPPED.

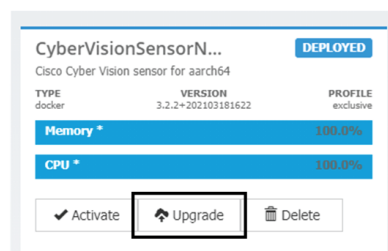
In Cisco Cyber Vision, the sensor status switches to Disconnected.



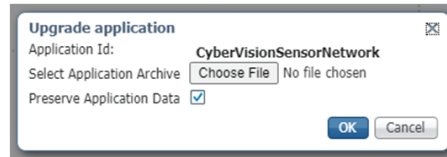
3. In the IOx Local Manager, click the **Deactivate** button.

The application status moves to DEPLOYED.

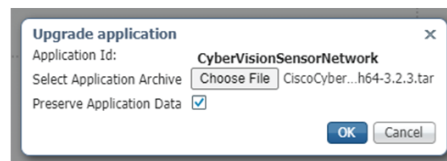
4. Click **Upgrade**.



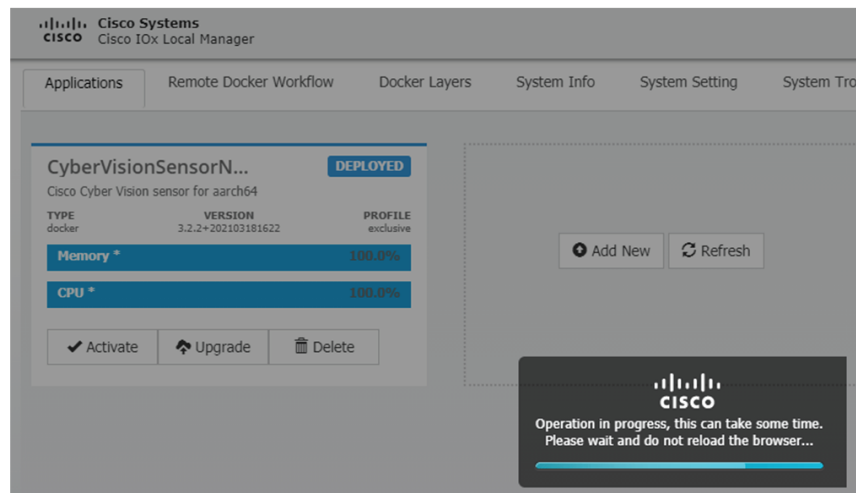
The pop up Upgrade application appears.



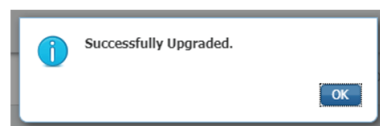
5. Select the **Preserve Application Data** option.
6. Select the new version of the application archive file.  
e.g. CiscoCyberVision-IOx-aarch64-3.2.3.tar



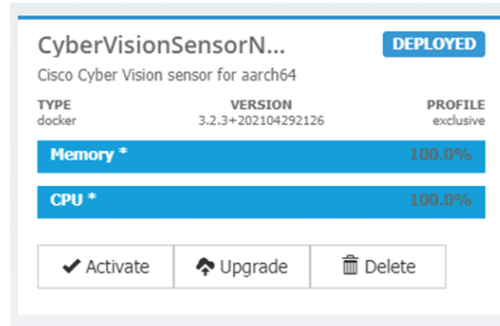
The operation takes a few moments.



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



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



CyberVisionSensorN... **DEPLOYED**

Cisco Cyber Vision sensor for aarch64

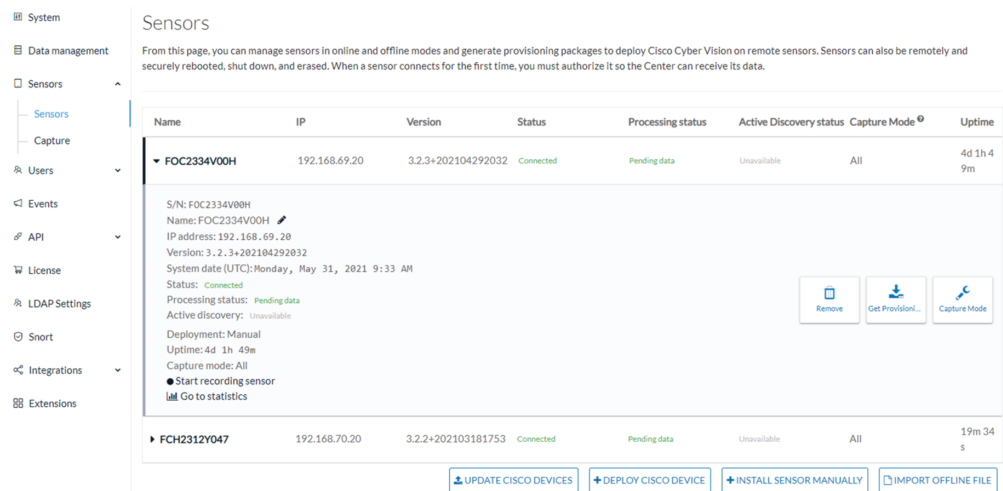
TYPE	VERSION	PROFILE
docker	3.2.3+202104292126	exclusive

Memory \* 100.0%

CPU \* 100.0%

9. Check configurations.
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.



System

Data management

Sensors

Sensors

Capture

Users

Events

API

License

LDAP Settings

Short

Integrations

Extensions

### Sensors

From this page, you can manage sensors in online and offline modes and generate provisioning packages to deploy Cisco Cyber Vision on remote sensors. Sensors can also be remotely and securely rebooted, shut down, and erased. When a sensor connects for the first time, you must authorize it so the Center can receive its data.

Name	IP	Version	Status	Processing status	Active Discovery status	Capture Mode	Uptime
▼ FOC2334V00H	192.168.69.20	3.2.3+202104292032	Connected	Pending data	Unavailable	All	4d 1h 49m
<p>S/N: FOC2334V00H</p> <p>Name: FOC2334V00H</p> <p>IP address: 192.168.69.20</p> <p>Version: 3.2.3+202104292032</p> <p>System date (UTC): Monday, May 31, 2021 9:33 AM</p> <p>Status: Connected</p> <p>Processing status: Pending data</p> <p>Active discovery: Unavailable</p> <p>Deployment: Manual</p> <p>Uptime: 4d 1h 49m</p> <p>Capture mode: All</p> <p>● Start recording sensor</p> <p>📊 Go to statistics</p>							
▶ FCH2312V047	192.168.70.20	3.2.2+202103181753	Connected	Pending data	Unavailable	All	19m 34s