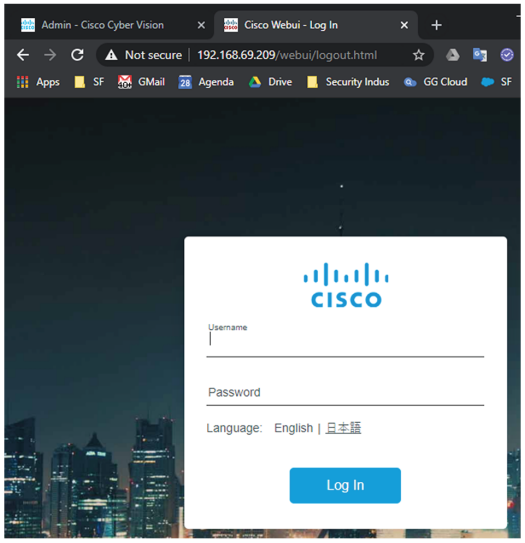
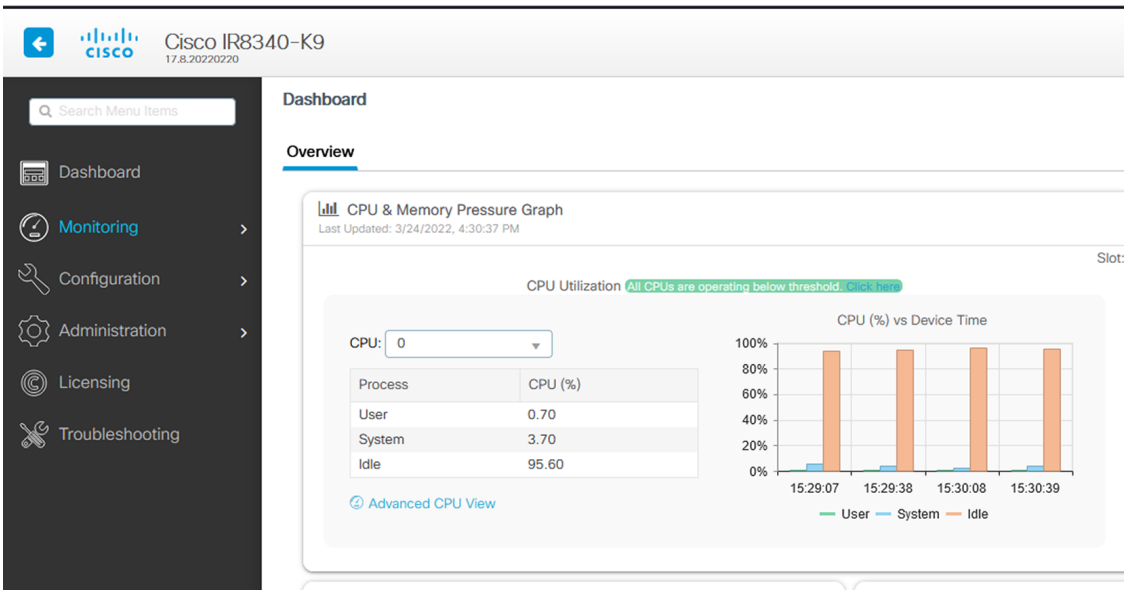
Procedure with the Local Manager

After the Initial configuration, proceed to the steps described in this section.

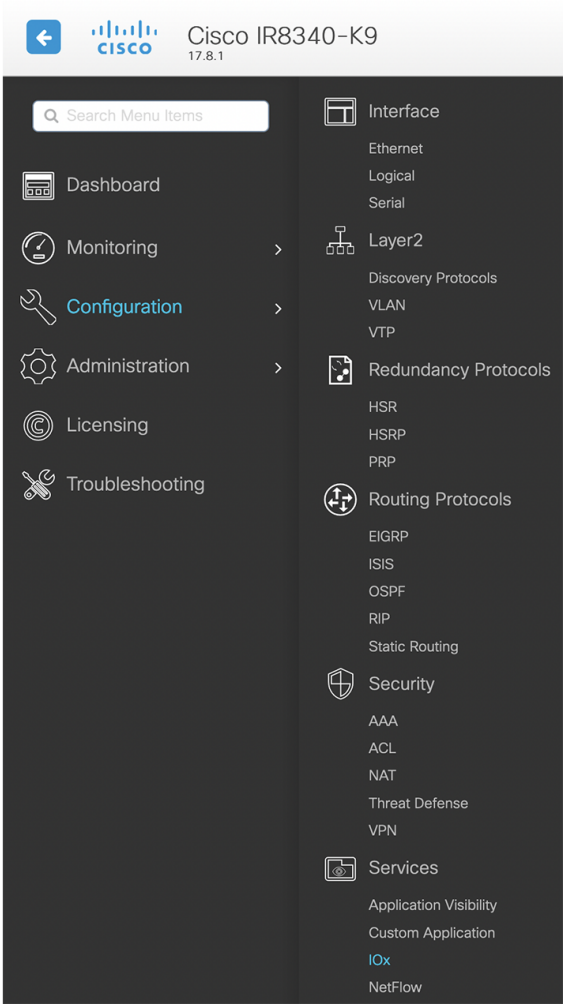
Access the IOx Local Manager

1. Open a browser and navigate to the IP address you configured on the interface you are connected to.
2. Log in using the Cisco IR8340 admin user account and password.

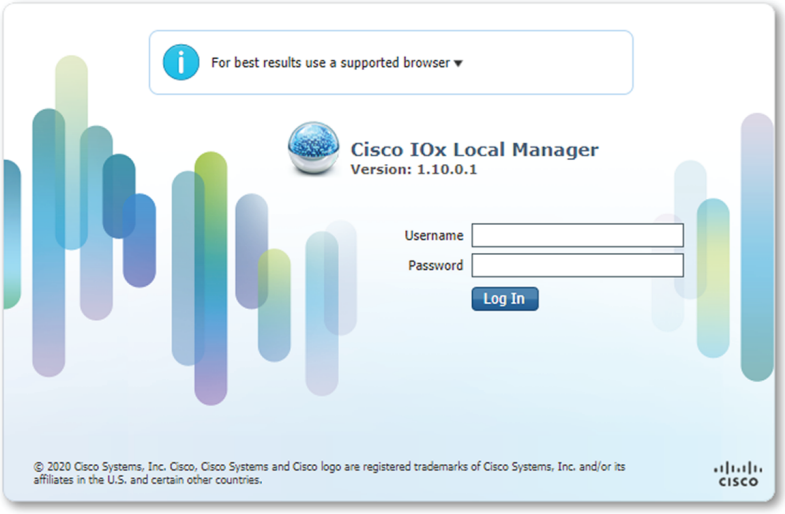




3. Once logged into the Local Manager, navigate to Configuration > Services > IOx.

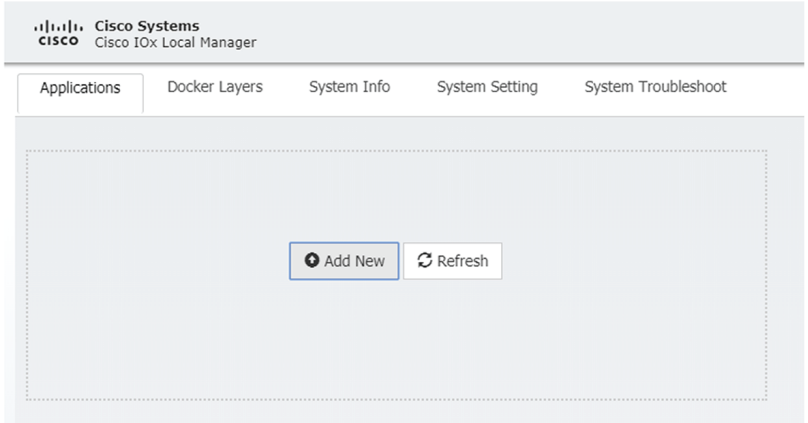


4. Log in using the user account and password.



Install the sensor virtual application

Once logged in, the following menu appears:

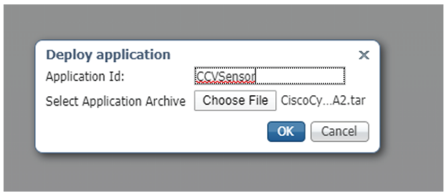


1. Click **Add New**.
2. Add an Application id name (e.g. CCVSensor).
3. Select the application archive file

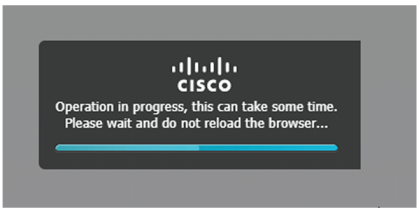
   (i.e. "CiscoCyberVision-IOx-x86-64-<version>.tar").

Note If you aim to install a sensor with **Active Discovery**, select the required application archive file

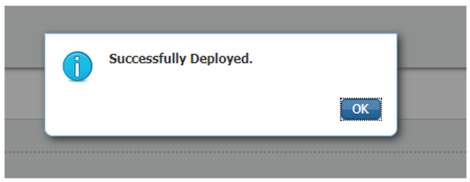
(i.e. "CiscoCyberVision-IOx-Active-Discovery-x86-64-<version>.tar").

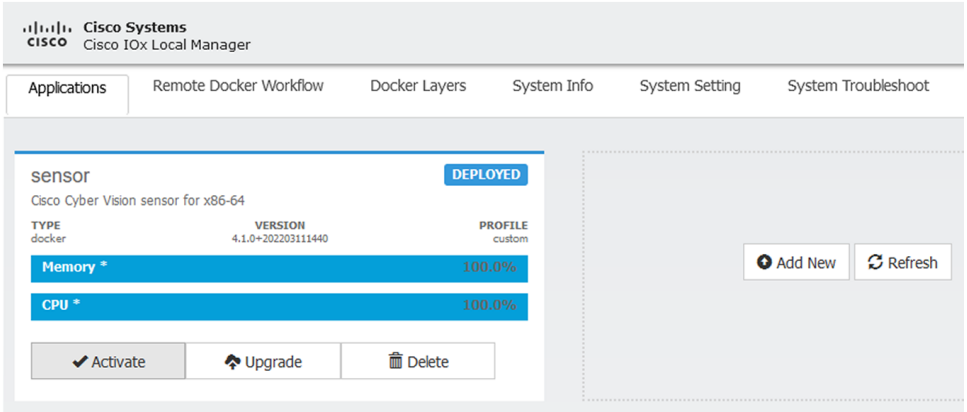


The installation takes a few minutes.



When the application is installed, the following message is displayed and the sensor application appears:

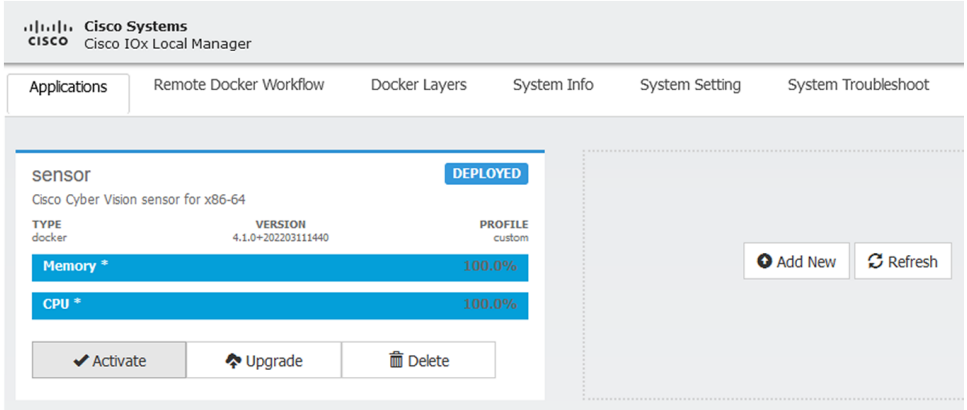




Configure the sensor virtual application

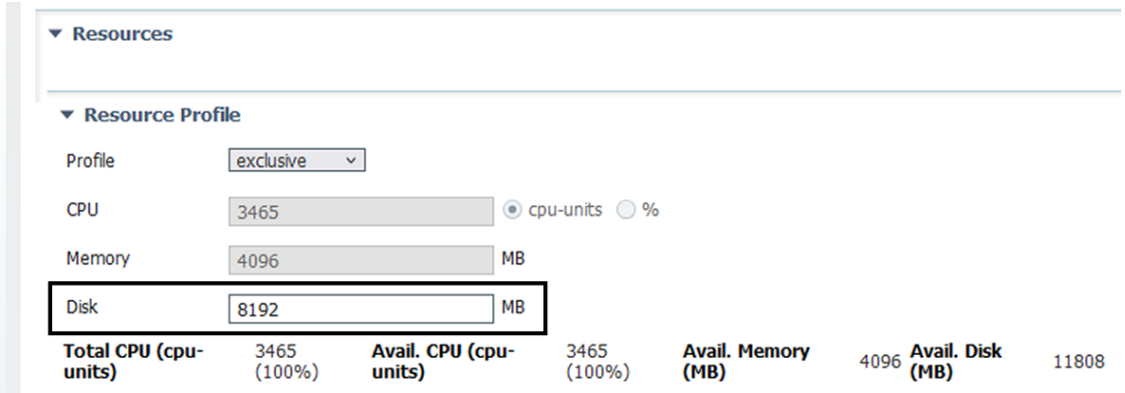
Procedure

Step 1 Click **Activate** to launch the configuration of the sensor application.



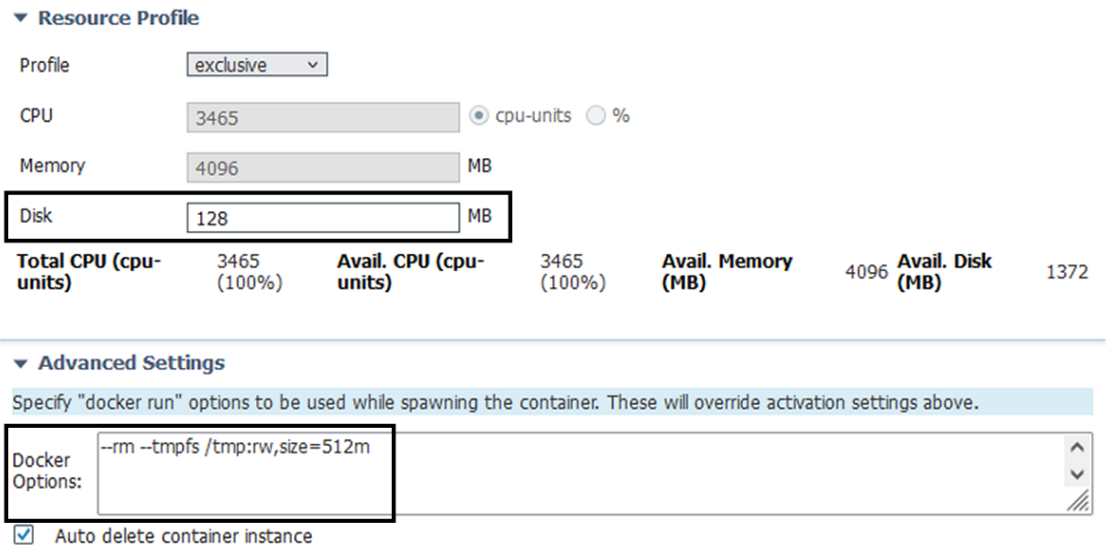
Step 2 Deploy the Resource Profile menu and set the disk size. The procedure differs whether the device has a SSD or not:

- If the device has a SSD, set the necessary disk size. It should be at least 4GB.



- If the device has no SSD, set the disk size to 128MB, then deploy the Advanced Settings menu and configure tmpfs by filling the docker options text area with:

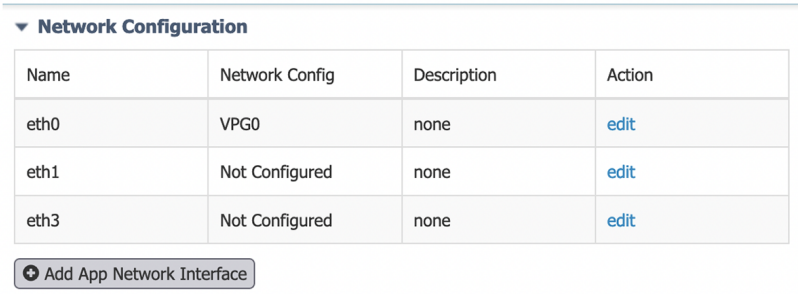
```
--tmpfs /tmp:rw,size=512m
```



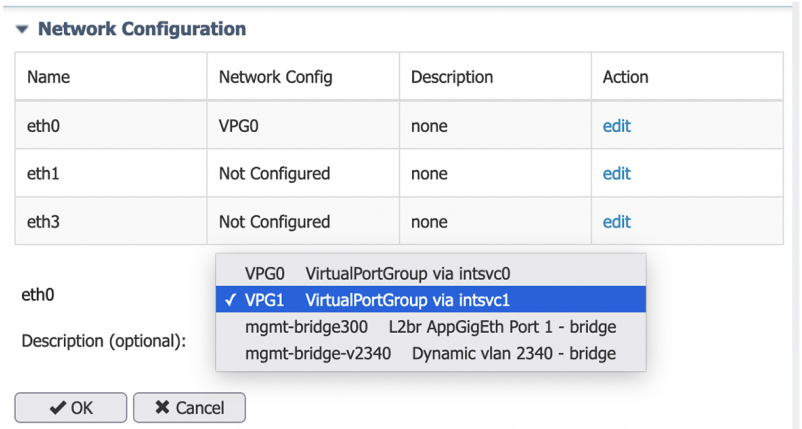
Step 3 Bind the eth0, eth1 and eth3 interfaces in the container to an interface on the host in the Network Configuration menu.

eth0:

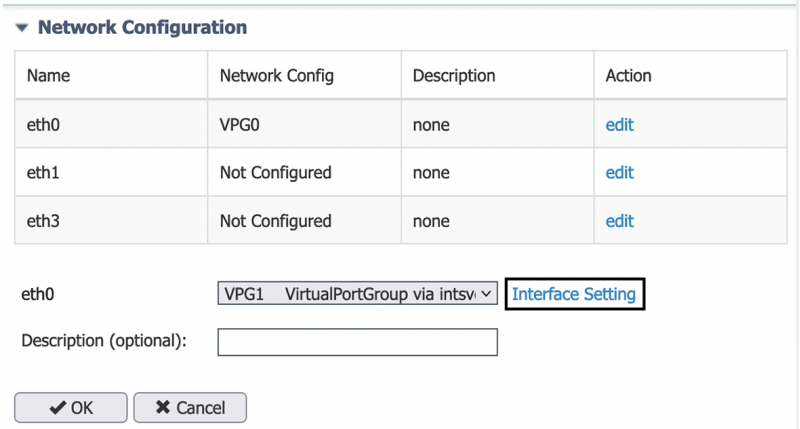
a) Click **edit** in the eth0 line.



b) Select the **VPG1** interface.



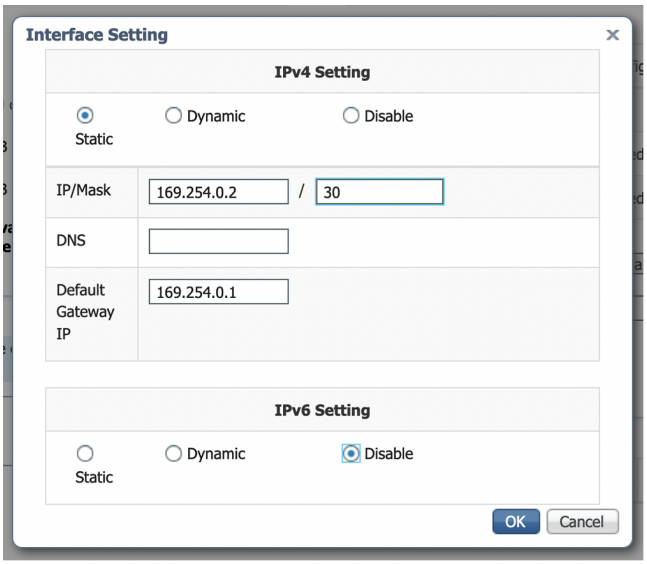
c) Click **Interface Setting**.



The Interface Setting window pops up.

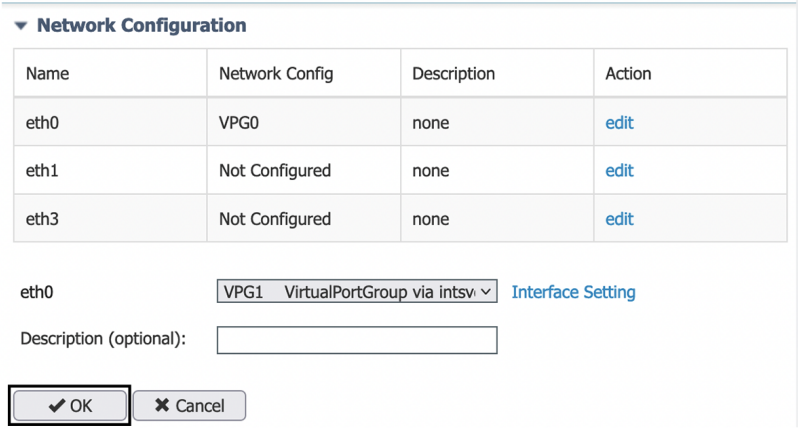
d) Apply the following configurations:

- Set IPv4 as **Static**.
- IP/Mask: 169.254.0.2 / 30
- Default gateway: 169.254.0.1
- **Disable** IPv6.



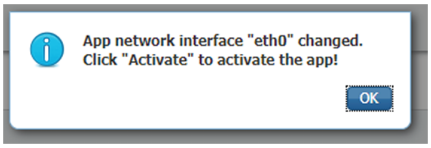
e) Click **OK** to save the interface settings.

You're back to the Network Configuration menu.



f) Click **OK** to save the network configurations.

A popup that confirms changes appears.

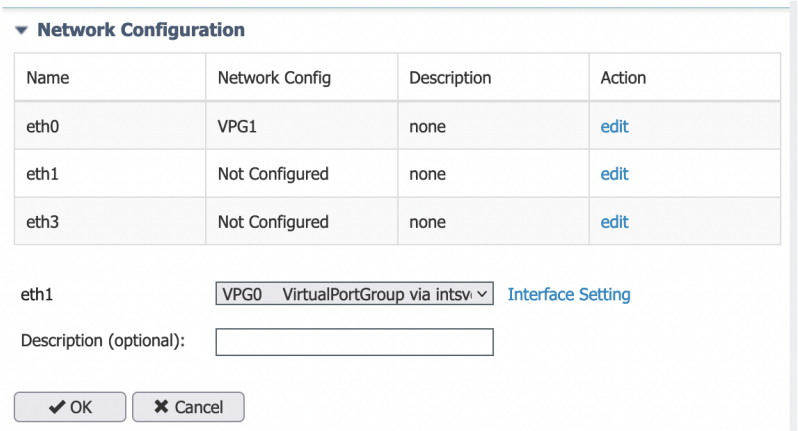


g) Click **OK**.

Step 4 **eth1:**

a) Click **edit** in the eth1 line.

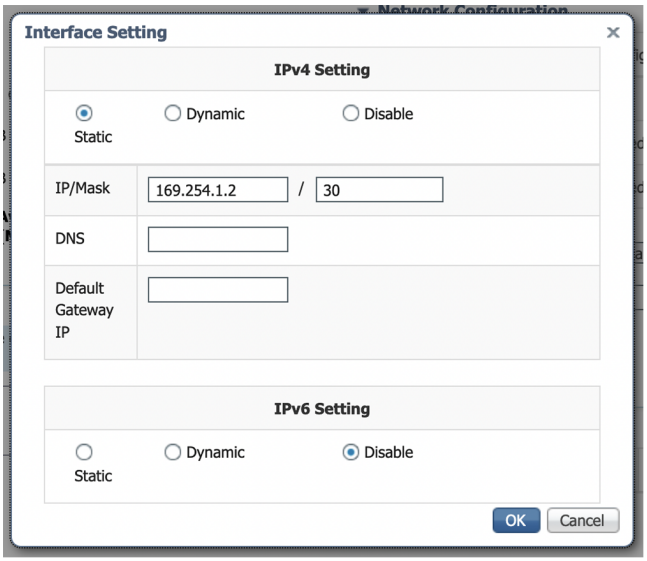
b) Select the **VPG0** interface.



c) Click **Interface setting**.

d) Apply the following configurations:

- Set IPv4 as **Static**.
- IP/Mask: 169.254.1.2 / 30
- **Disable** IPv6.

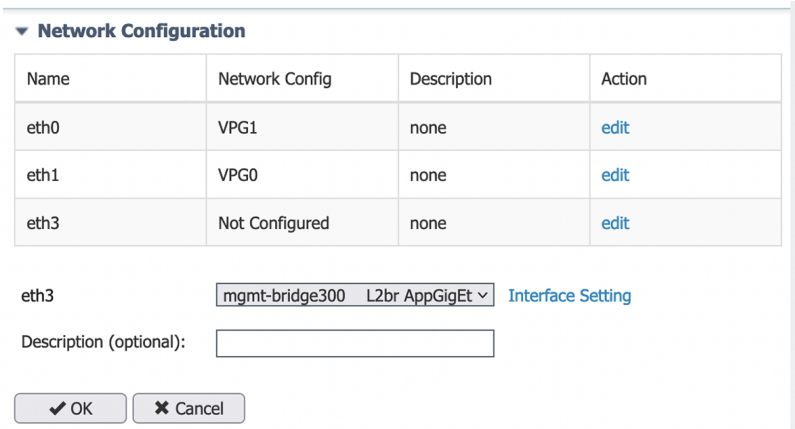


e) Click **OK**, and click **OK** again when you're back to the Network Configuration menu to save the interface settings.

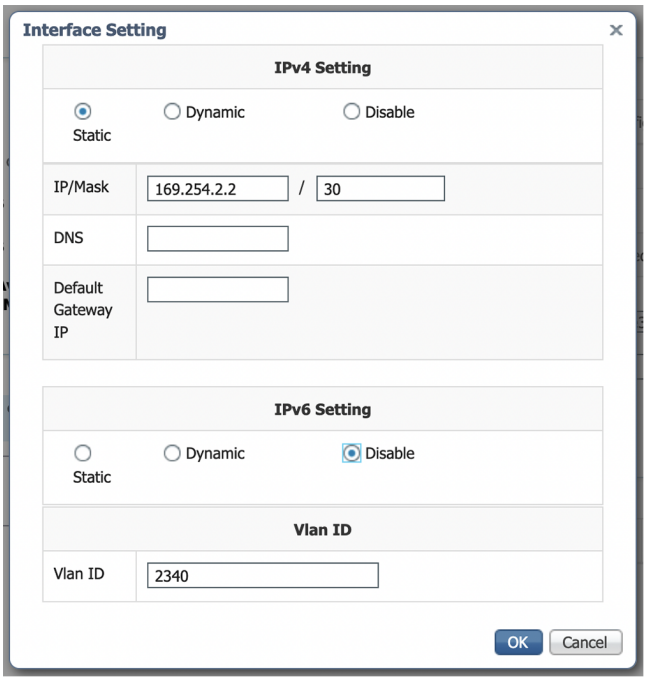
Step 5 **eth3:**

a) Apply the following configurations to eth3:

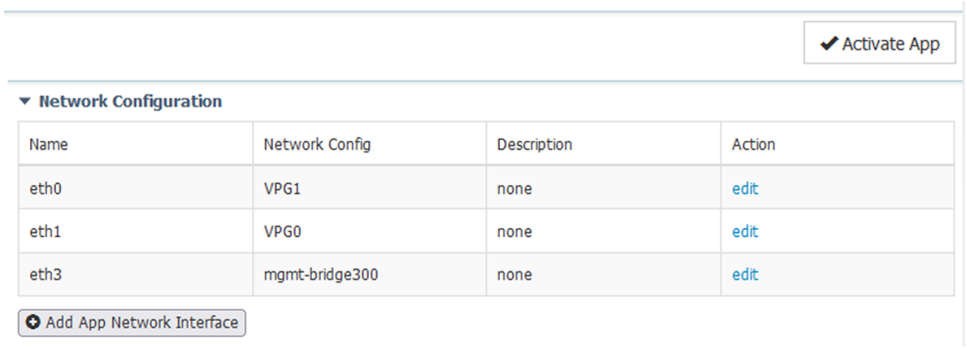
- Select **mgmt-bridge300**.



- Select **Static**.
- IP/Mask: 169.254.2.2/30.
- **Disable** IPv6.
- Vlan ID: VLAN in the Cisco IR8340 dedicated to traffic mirroring for the switched ports (e.g. 2340).



b) Click **OK**, and click **OK** again when you're back to the Network Configuration menu to save the interface settings.

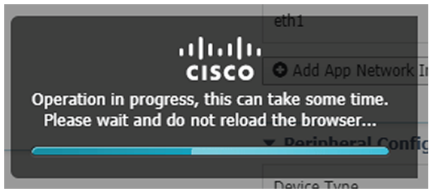


Step 6 If installing a sensor with **Active Discovery**, an additional eth2 interface appears in the Network Configuration menu. To configure this interface:

- Bind eth2 with mgmt-bridge300.
- Make sure IPv4 and IPv6 are set to Dynamic.

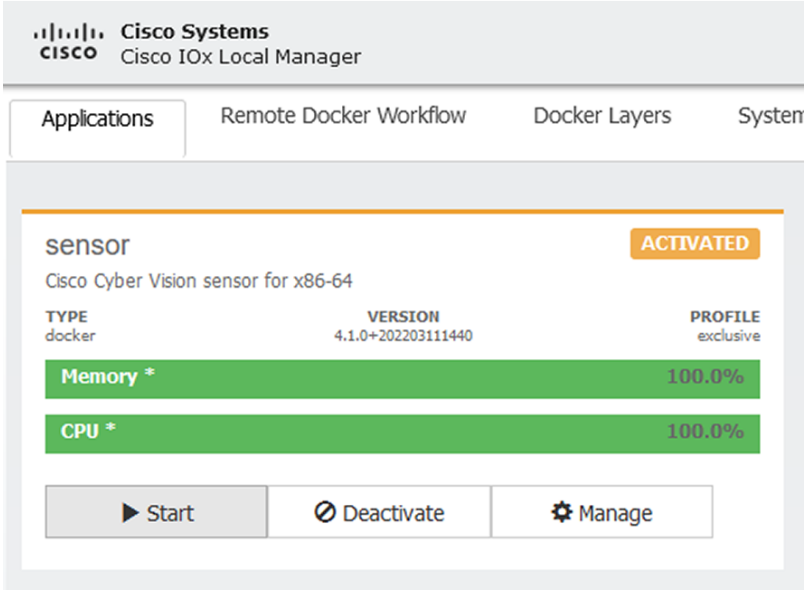
Step 7 Click the **Activate App** button.

The operation takes several seconds.



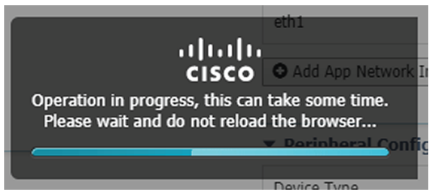
Step 8 Go to the Applications menu to see the application's status.

The application is activated and needs to be started.



Step 9 Click the **Start** button.

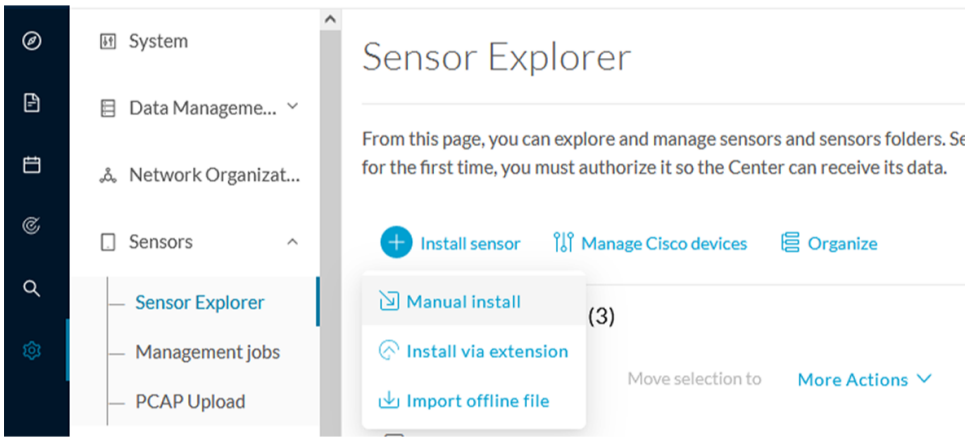
The operation takes several seconds.



The applications' status changes to RUNNING.

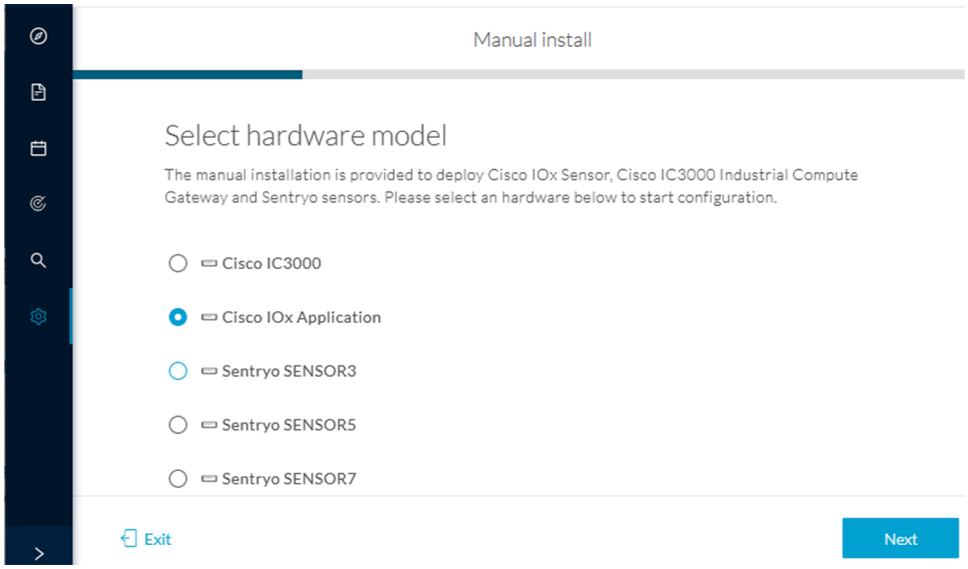
Generate the provisioning package

1. In Cisco Cyber Vision, navigate to Admin > Sensors > Sensor Explorer and click **Install sensor**, then **Manual install**.

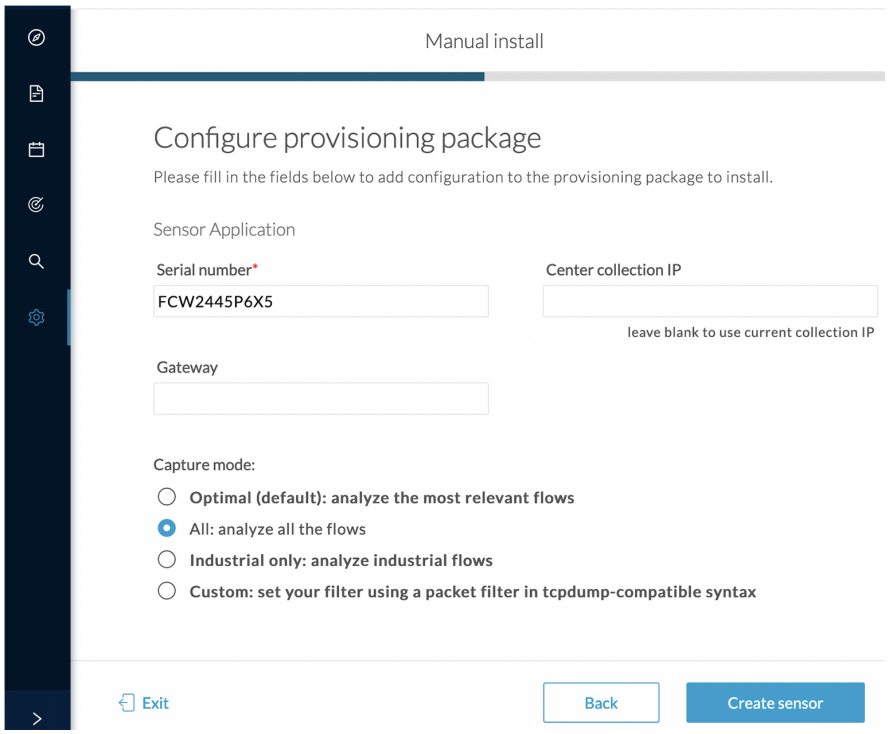


The manual install wizard appears.

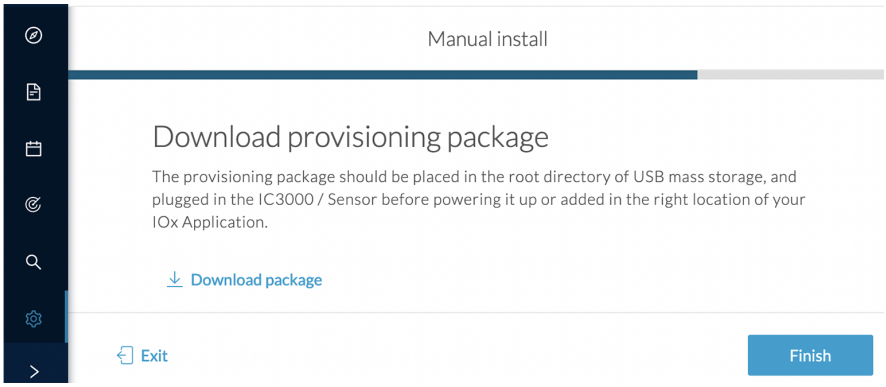
2. Select **Cisco IOx Application** and click **Next**.



3. Fill the fields to configure the sensor provisioning package:
   - The serial number of the hardware.
   - Center IP: leave blank.
   - Gateway: add if necessary.
   - Optionally, select a capture mode.



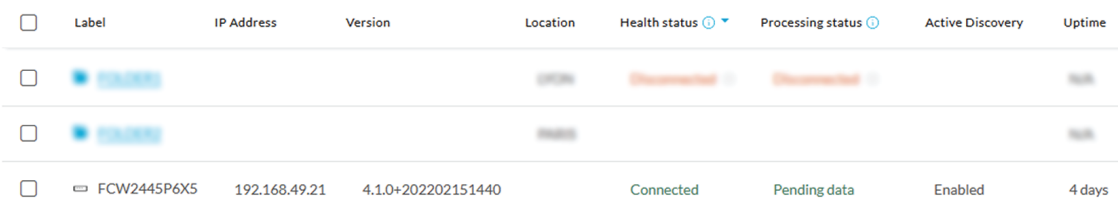
4. Click **Create sensor**.
5. Click the link to download the provisioning package.



This will download the provisioning package which is a zip archive file with the following name structure: sbs-sensor-config-<serialnumber>.zip (e.g. "sbs-sensor-configFCW23500HDC.zip").

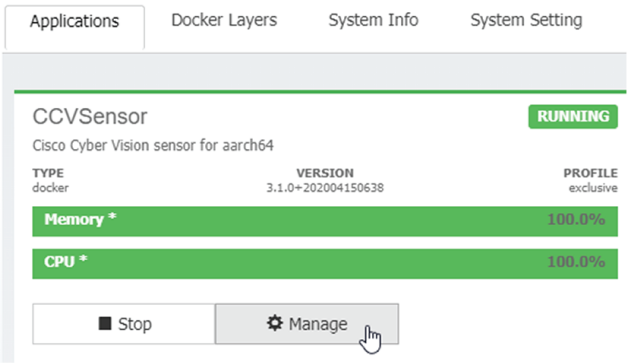
6. Click **Finish**.
7. A new entry for the sensor appears in the Sensor Explorer list.

   The sensor status will switch from Disconnected to Connected.

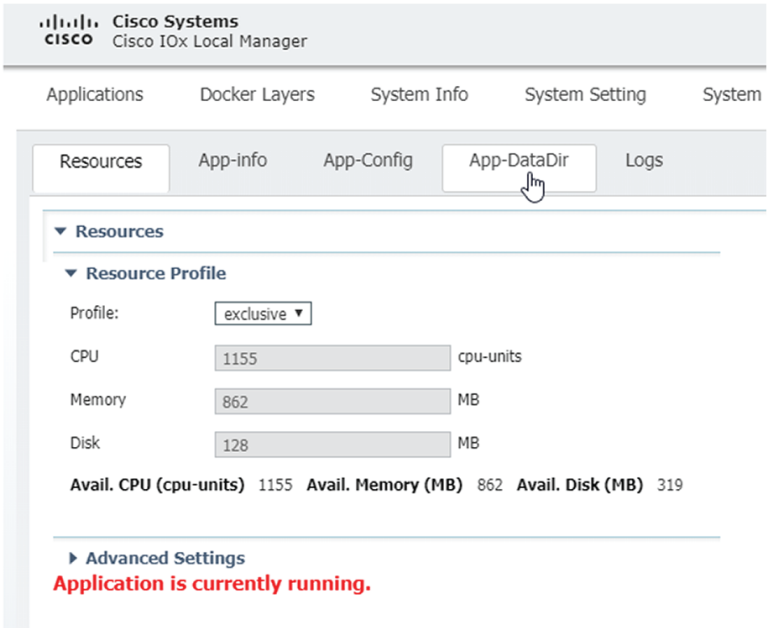


Import the provisioning package

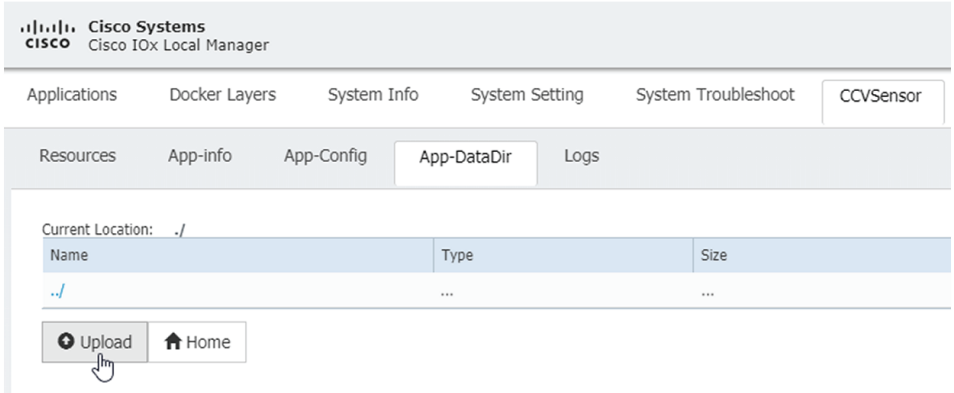
1. In the Local Manager, in the IOx configuration menu, click **Manage**.



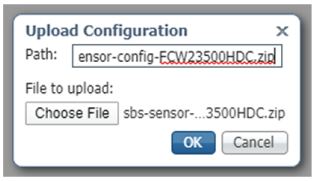
2. Navigate to **App-DataDir**.



3. Click **Upload**.



4. Choose the provisioning package downloaded (i.e. "sbs-sensor-config-FCW23500HDC.zip"), and add the exact file name in the path field (i.e. "sbs-sensor-config-FCW23500HDC.zip").
5. Click **OK**.



6. After a few seconds, the sensor appears as Connected in Cisco Cyber Vision.