



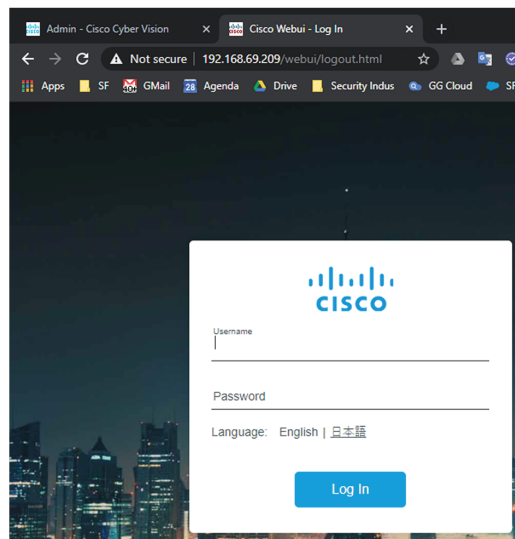
Procedure with the Local Manager

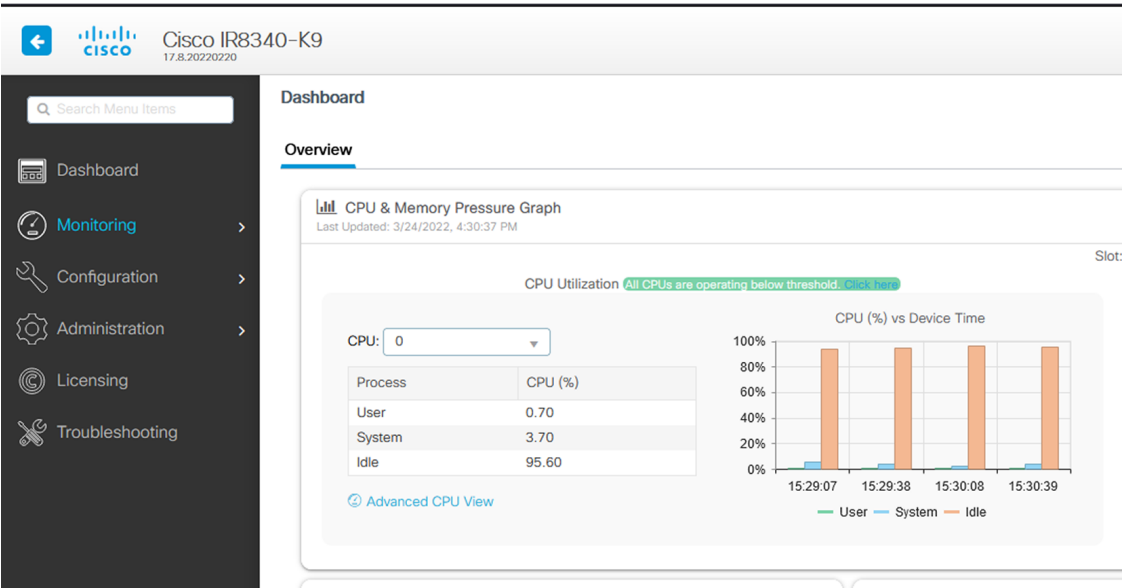
After the [Initial configuration](#), proceed to the steps described in this section.

- [Access the IOx Local Manager, on page 1](#)
- [Install the sensor virtual application, on page 4](#)
- [Configure the sensor virtual application, on page 5](#)
- [Generate the provisioning package, on page 12](#)
- [Import the provisioning package, on page 15](#)

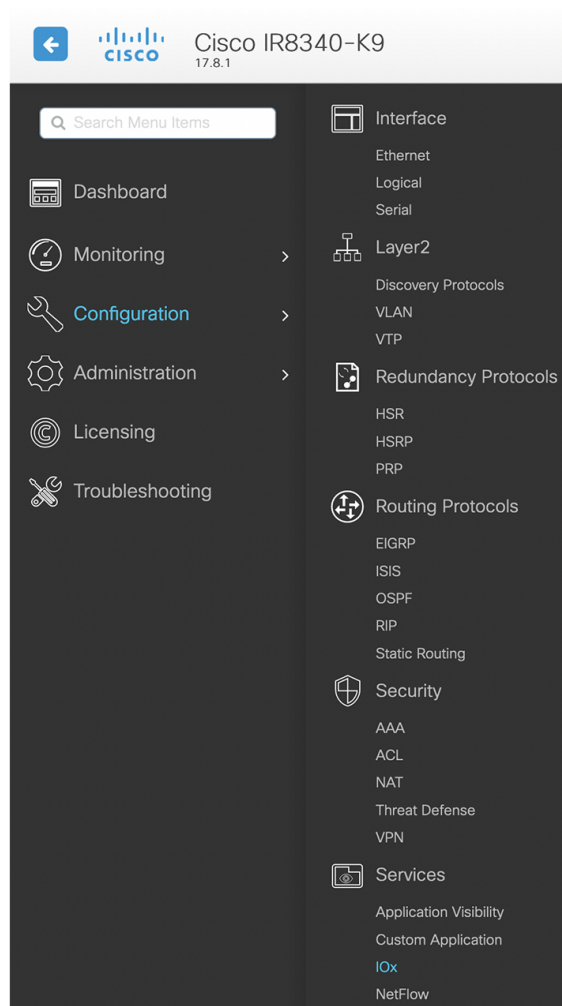
Access the IOx Local Manager

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.

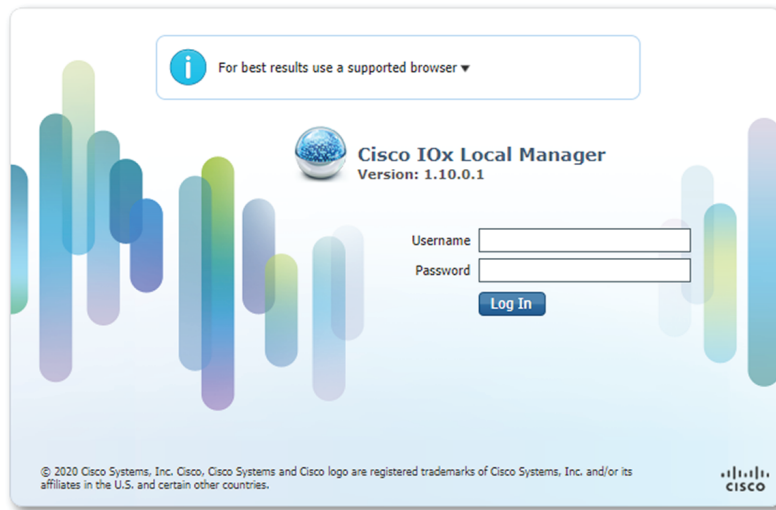




3. Once logged into the Local Manager, navigate to Configuration > Services > IOx.

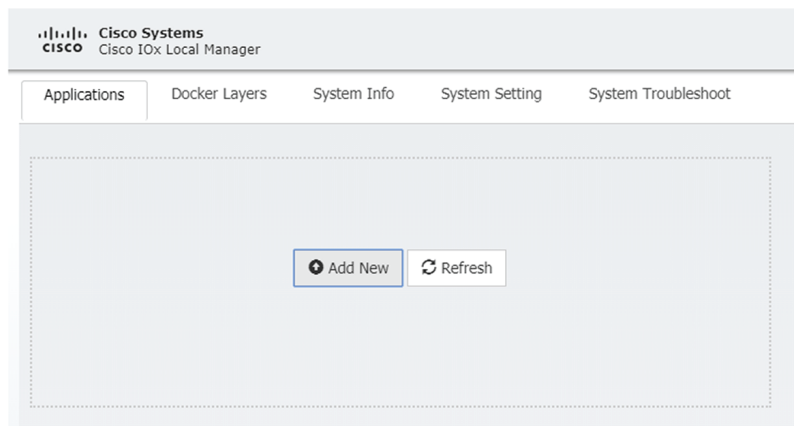


4. Log in using the user account and password.



Install the sensor virtual application

Once logged in, the following menu appears:

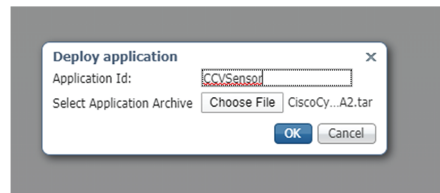


1. Click **Add New**.
2. Add an Application id name (e.g. CCVSensor).
3. Select the application archive file
(i.e. "CiscoCyberVision-IOx-x86-64-<version>.tar").

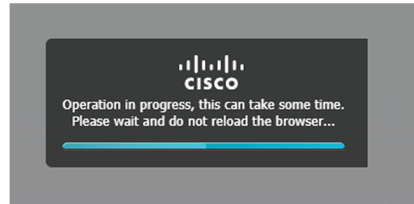


Note If you aim to install a sensor with **Active Discovery**, select the required application archive file

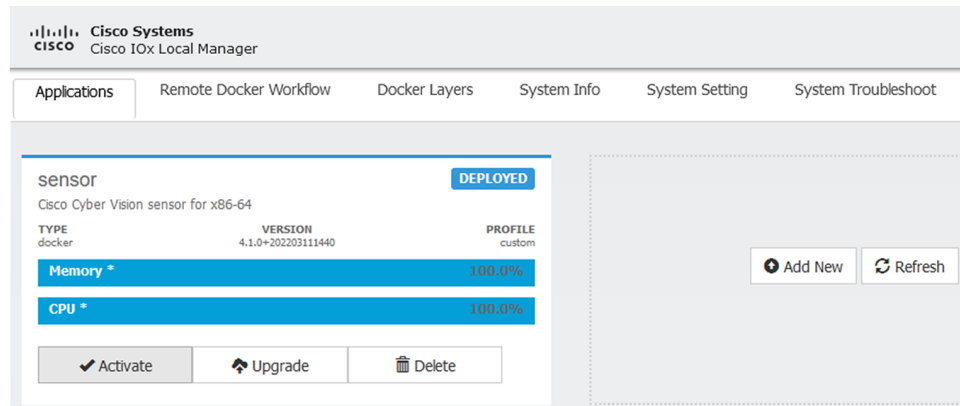
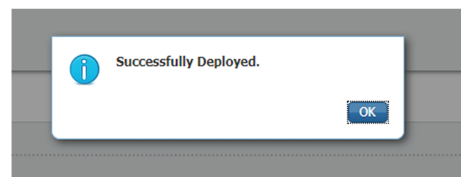
(i.e. "CiscoCyberVision-IOx-Active-Discovery-x86-64-<version>.tar").



The installation takes a few minutes.



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

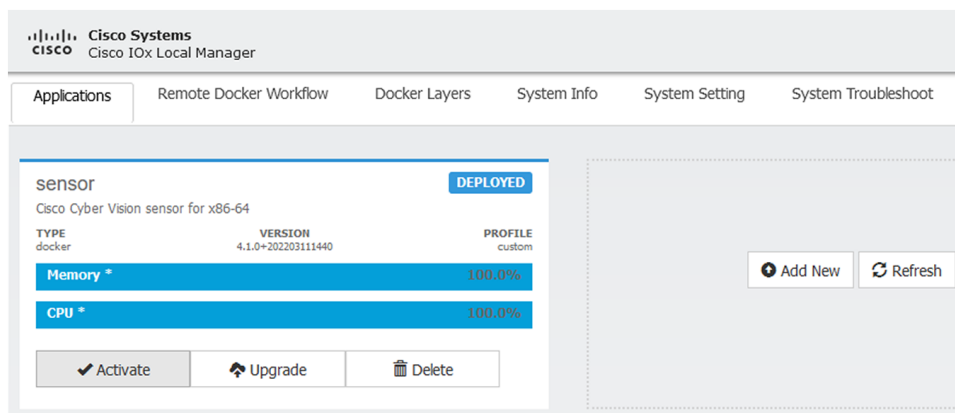


Configure the sensor virtual application

Procedure

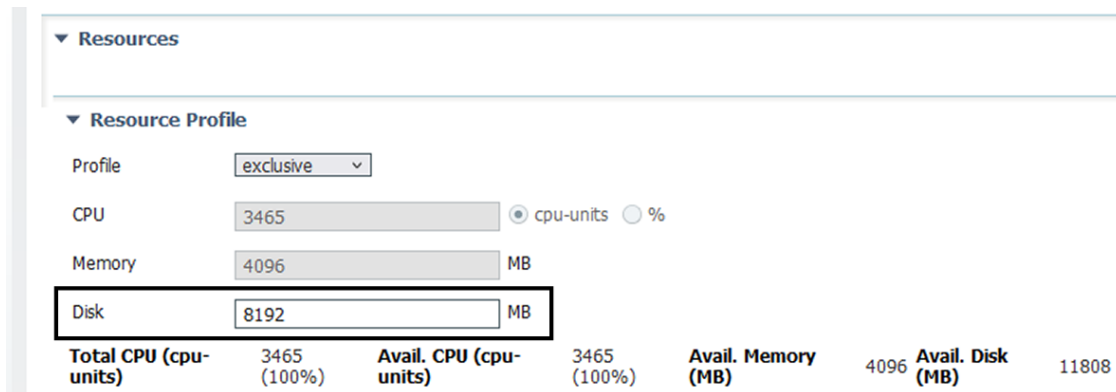
- Step 1** Click **Activate** to launch the configuration of the sensor application.

Configure the sensor virtual 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
```

▼ **Resource Profile**

Profile exclusive

CPU 3465 ☒ cpu-units ☐ %

Memory 4096 MB

Disk 128 MB

Total CPU (cpu-units)	3465 (100%)	Avail. CPU (cpu-units)	3465 (100%)	Avail. Memory (MB)	4096	Avail. Disk (MB)	1372
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▼ **Advanced Settings**

Specify "docker run" options to be used while spawning the container. These will override activation settings above.

Docker Options: --rm --tmpfs /tmp:rw,size=512m

☒ Auto delete container instance

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.

▼ **Network Configuration**

Name	Network Config	Description	Action
eth0	VPG0	none	edit
eth1	Not Configured	none	edit
eth3	Not Configured	none	edit

[+ Add App Network Interface](#)

b) Select the **VPG1** interface.

▼ **Network Configuration**

Name	Network Config	Description	Action
eth0	VPG0	none	edit
eth1	Not Configured	none	edit
eth3	Not Configured	none	edit

eth0

Description (optional):

VPG0 VirtualPortGroup via intsvc0

✓ VPG1 VirtualPortGroup via intsvc1

mgmt-bridge300 L2br AppGigEth Port 1 - bridge

mgmt-bridge-v2340 Dynamic vlan 2340 - bridge

OK Cancel

c) Click **Interface Setting**.

▼ Network Configuration

Name	Network Config	Description	Action
eth0	VPG0	none	edit
eth1	Not Configured	none	edit
eth3	Not Configured	none	edit

eth0 VPG1 VirtualPortGroup via intsv [Interface Setting](#)

Description (optional):

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.

Interface Setting ✕

IPv4 Setting

☒ Static ☐ Dynamic ☐ Disable

IP/Mask: /

DNS:

Default Gateway IP:

IPv6 Setting

☐ Static ☐ Dynamic ☒ Disable

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

You're back to the Network Configuration menu.

▼ **Network Configuration**

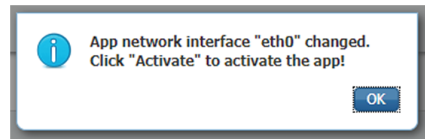
Name	Network Config	Description	Action
eth0	VPG0	none	edit
eth1	Not Configured	none	edit
eth3	Not Configured	none	edit

eth0 VPG1 VirtualPortGroup via intsv. ▼ [Interface Setting](#)

Description (optional):

- 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.

▼ **Network Configuration**

Name	Network Config	Description	Action
eth0	VPG1	none	edit
eth1	Not Configured	none	edit
eth3	Not Configured	none	edit

eth1 VPG0 VirtualPortGroup via intsv. ▼ [Interface Setting](#)

Description (optional):

- c) Click **Interface setting**.
d) Apply the following configurations:

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

Interface Setting

IPv4 Setting

☒ Static ☐ Dynamic ☐ Disable

IP/Mask: 169.254.1.2 / 30

DNS:

Default Gateway IP:

IPv6 Setting

☐ Static ☐ Dynamic ☒ Disable

OK Cancel

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**.

Network Configuration

Name	Network Config	Description	Action
eth0	VPG1	none	edit
eth1	VPG0	none	edit
eth3	Not Configured	none	edit

eth3 **mgmt-bridge300 L2br AppGigEt** [Interface Setting](#)

Description (optional):

OK Cancel

- 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).

The 'Interface Setting' dialog box is shown. It has a title bar with a close button. Inside, there are two main sections: 'IPv4 Setting' and 'IPv6 Setting'. The 'IPv4 Setting' section has three radio buttons: 'Static' (selected), 'Dynamic', and 'Disable'. Below these are three input fields: 'IP/Mask' with the value '169.254.2.2 / 30', 'DNS', and 'Default Gateway IP'. The 'IPv6 Setting' section has three radio buttons: 'Static', 'Dynamic', and 'Disable' (selected). Below this is a 'Vlan ID' section with an input field containing the value '2340'. At the bottom right are 'OK' and 'Cancel' buttons.

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

The 'Network Configuration' menu is shown. It has a title bar with a close button and an 'Activate App' button with a checkmark. Below the title bar is a section titled 'Network Configuration' with a dropdown arrow. It contains a table with four columns: 'Name', 'Network Config', 'Description', and 'Action'. The table has three rows: 'eth0' with 'VPG1', 'eth1' with 'VPG0', and 'eth3' with 'mgmt-bridge300'. Each row has an 'edit' link in the 'Action' column. Below the table is a button labeled 'Add App Network Interface'.

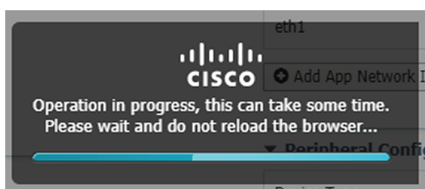
Name	Network Config	Description	Action
eth0	VPG1	none	edit
eth1	VPG0	none	edit
eth3	mgmt-bridge300	none	edit

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.

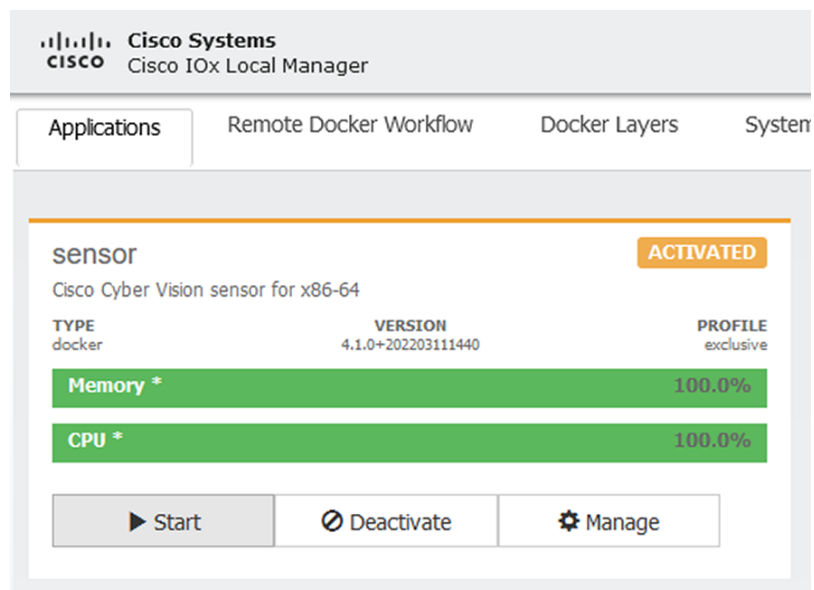
Step 7 Click the **Activate App** button.

The operation takes several seconds.



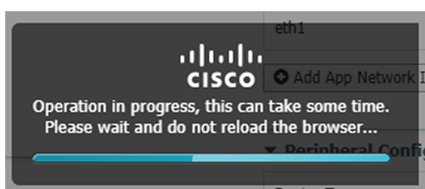
Step 8 Go to the Applications menu to see the application's status.

The application is activated and needs to be started.



Step 9 Click the **Start** button.

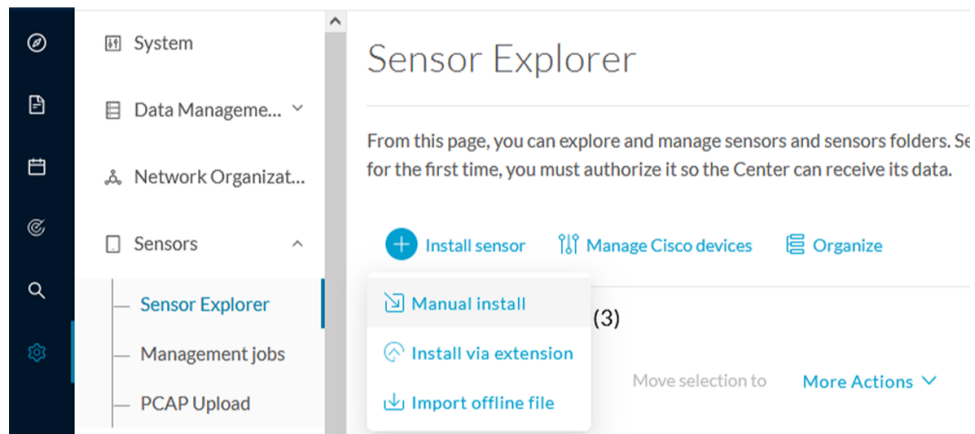
The operation takes several seconds.



The applications' status changes to RUNNING.

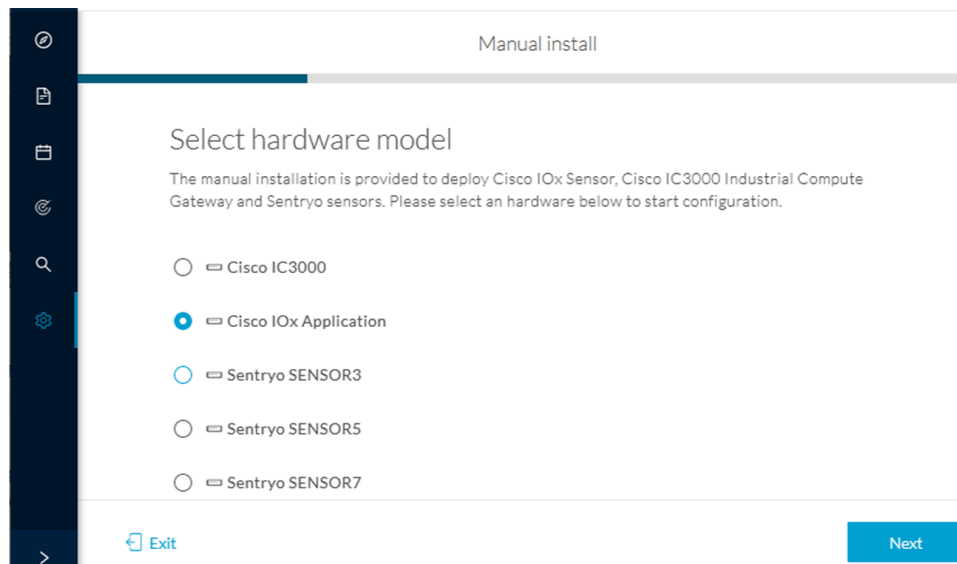
Generate the provisioning package

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.

Manual install

Configure provisioning package

Please fill in the fields below to add configuration to the provisioning package to install.

Sensor Application

Serial number*
FCW2445P6X5

Center collection IP
leave blank to use current collection IP

Gateway

Capture mode:

- ☐ Optimal (default): analyze the most relevant flows
- ☒ All: analyze all the flows
- ☐ Industrial only: analyze industrial flows
- ☐ Custom: set your filter using a packet filter in tcpdump-compatible syntax

Exit Back Create sensor

4. Click **Create sensor**.

5. Click the link to download the provisioning package.

Manual install

Download provisioning package

The provisioning package should be placed in the root directory of USB mass storage, and plugged in the IC3000 / Sensor before powering it up or added in the right location of your IOx Application.

[Download package](#)

Exit Finish

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**.

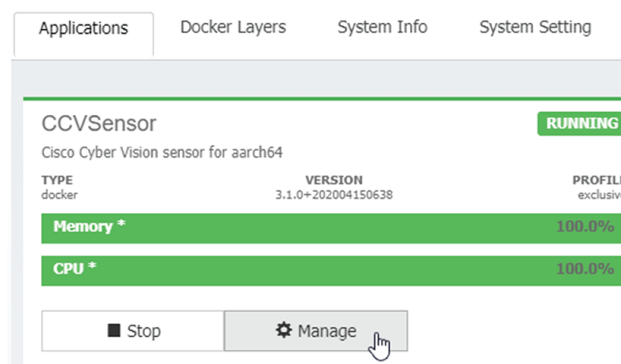
7. A new entry for the sensor appears in the Sensor Explorer list.

The sensor status will switch from Disconnected to Connected.

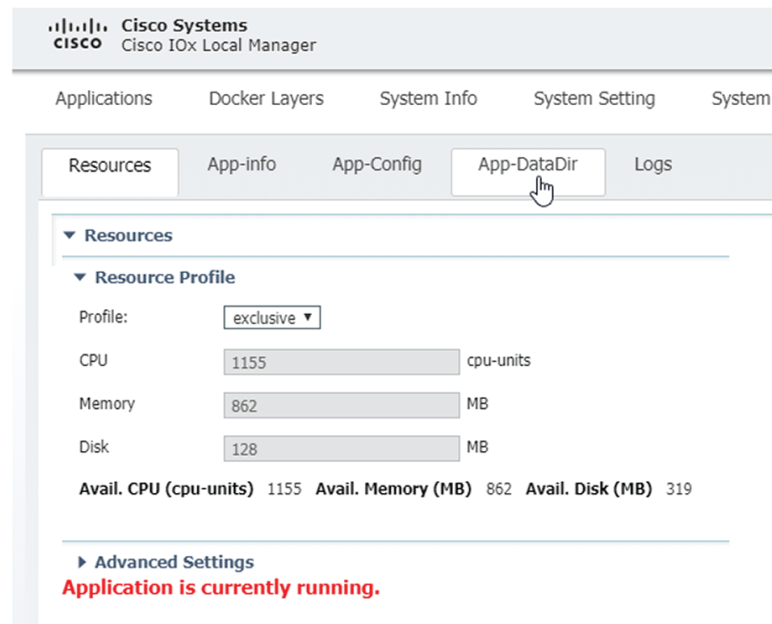
<input type="checkbox"/>	Label	IP Address	Version	Location	Health status	Processing status	Active Discovery	Uptime
<input type="checkbox"/>	FCW2445P6XS			UPON				Not
<input type="checkbox"/>	FCW2445P6XS			UPON				Not
<input type="checkbox"/>	FCW2445P6XS	192.168.49.21	4.1.0+202202151440		Connected	Pending data	Enabled	4 days

Import the provisioning package

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

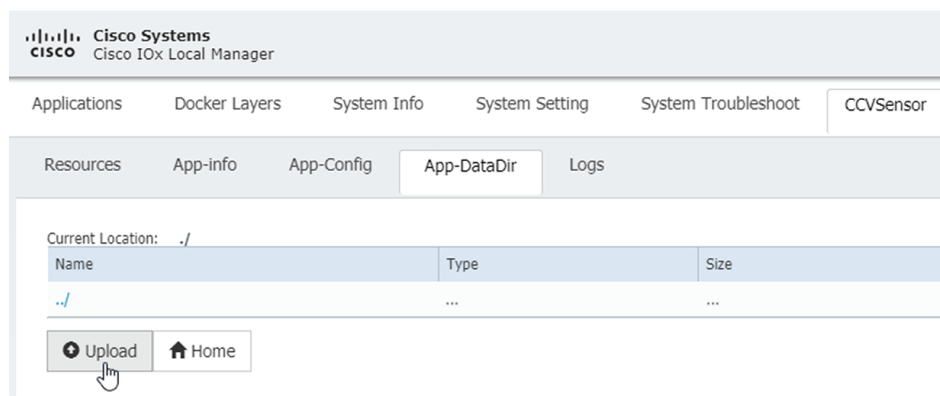


2. Navigate to **App-DataDir**.

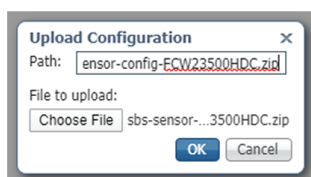


3. Click **Upload**.

Import the provisioning package



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.

<input type="checkbox"/>	FCW2445P6X5	192.168.49.21	4.1.0+202202151440	Connected	Pending data	Enabled	4 days
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