

# **Procedure with the Local Manager**

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

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### **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 IR1101 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.

For best results use a supported browser ▼	
Cisco IOx Local Manager Version: 1.10.0.1 Username Password Log In	
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## Install the sensor virtual application

Once logged in, the following menu appears:

Applications	Docker Layers	System Info	System Setting	System Troubleshoot
		• Add New	🕻 Refresh	

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

(i.e. "CiscoCyberVision-IOx-aarch64-<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-aarch64-<version>.tar").

Deploy application	×
Application Id:	CCVSensor
Select Application Archive	Choose File CiscoCyA2.tar
	OK Cancel

The installation takes a few minutes.



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

j Suc	cessfully Deployed.	OK				
cisco Cisco IOx Loca	s al Manager					
Applications Ren	note Docker Workflow	Docker Layers	System Info	System Setting	System Tr	oubleshoot
sensor		DEPLO	YED			
Cisco Cyber Vision sensor	for x86-64					
docker	VERSION 4.1.0+202203111440	PR	OFILE custom			
Memory *		100.0	0%		Add New	C Refresh
CPU *		100.0	0%			
✓ Activate	Upgrade	💼 Delete				

# **Configure the sensor virtual application**

#### Procedure

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

cisco Systems Cisco IOx Local Manager		
Applications Docker Layers	System Info System S	Setting System Troubleshoot
CCVSensor Cisco Cyber Vision sensor for aarch64		DEPLOYED
TYPE docker	VERSION 3.1.0+202004081210	PROFILE exclusive
Memory *		100.0%
СРU *		100.0%
✓ Activate	🏞 Upgrade	🛅 Delete

- **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.

Resources						
<ul> <li>Resource Pr</li> </ul>	ofile					
Profile	exclusive	~				
CPU	3465	. ср	u-units 🔵 %			
Memory	4096	MB				
Disk	8192	MB				
Total CPU (cpu units)	- 3465 (100%)	Avail. CPU (cpu- units)	3465 (100%)	Avail. Memory (MB)	4096 Avail. Disk (MB)	11808

• 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=128m

▼ Resource Prof	ile					
Profile	exclusive ~					
CPU	3465	<ul> <li>ср</li> </ul>	u-units 🔵 %			
Memory	4096	MB				
Disk	128	MB				
Total CPU (cpu- units)	3465 Ava (100%) unit	il. CPU (cpu- ːs)	3465 (100%)	Avail. Memory (MB)	4096 Avail. Disk (MB)	1372
▼ Advanced Set	tings					
Specify "docker run'	options to be used wh	nile spawning the	container. The	ese will override activa	tion settings above.	
Docker Options:	ofs /tmp:rw,size=128 m					<b>^</b>
Auto delete co	ontainer instance					

**Step 3** Bind the eth0 and eth1 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			
Add App Network Interface						

b) Select the VPG1 interface.

▼ Network Configuration					
Name		Network Config			
eth0		VPG0			
eth1		Not Configured			
eth0 Description (optional):	VPG1 VirtualPort VPG0 VirtualPort VPG1 VirtualPort	tGroup via intsv T tGroup via intsvc0 tGroup via intsvc1	Interface Setting		
✓ OK X Canc	el				

c) Click Interface setting.

<ul> <li>Network Configura</li> </ul>	tion		
Name		Network Config	
eth0		VPG0	
eth1		Not Configured	
eth0 Description (optional):	VPG1 VirtualPortG	Group via intsv  Interface Satting	
✔ OK X Can	cel		

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

Interfa	ace Setting			×
			IPv4 Setting	
(	<ul> <li>Static</li> </ul>	○ Dynamic	○ Disable	
IP/M	Mask	169.254.0.2 / 30		
DNS	S			
Def	ault Gateway IP	169.254.0.1		
				OK Cancel

e) Check that IPV6 is set to **Disable**.



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

You're back to the Network Configuration menu.

<ul> <li>Network Configuration</li> </ul>					
Name	Network Config				
eth0	VPG0				
eth1	Not Configured				
eth0 VPG1 VirtualPortG Description (optional):	roup via ints  Interface Satting				

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

A popup that confirms changes appears.



h) Click OK.

### Step 4 eth1:

- a) Click edit in the eth1 line.
- b) Select the VPG0 interface.

<ul> <li>Network Configure</li> </ul>	ration	
Name		Network Config
eth0		VPG1
eth1		Not Configured
eth1	VPG0 VirtualPor	tGroup via ints ▼ Interface Setting

- c) Click Interface setting.
- d) Apply the following configurations:
  - Set IPv4 as Static.
  - IP/Mask: 169.254.1.2 / 30

Ir	terface Setting			×
			IPv4 Setting	
	<ul> <li>Static</li> </ul>	○ Dynamic	○ Disable	
	IP/Mask	169.254.1.2 / 3		
	DNS			
	Default Gateway IP			
				OK Cancel

e) Disable IPv6.

		IPv6 Setting	
○ Static	O Dynamic	Disable	

- f) Click **OK**, and click **OK** again when you're back to the Network Configuration menu to save the interface settings.
- Step 5 Click the Activate App button.

The operation takes several seconds.



**Step 6** Go to the Applications menu to see the application's status.

The application is activated and needs to be started.

cisco Cisco I	<b>Systems</b> Dx Local Manager				
Applications	Docker Layers	System Info	System Setting	System Troubleshoot	CCVSensor
CCVSensor	r			ACTIVATE	D
Cisco Cyber Vision	n sensor for aarch64				
TYPE docker	TYPE docker		<b>1</b> 50638	PROF	ILE sive
Memory *				100.0%	6
CPU *				100.0%	6
Þ	Start	Ø Deactivat	e	🌣 Manage	

**Step 7** Click the **Start** button.

The operation takes several seconds.



The applications' status changes to RUNNING.

Applications	Docker Layers	System Info	System Setting	System Troubleshoot	CCVSen
CCVSenso	or			RUNNING	
Cisco Cyber Visio	on sensor for aarch64				
YPE         VERSI           locker         3.1.0+20200		N 150638	PROFILE exclusive		
Memory *				100.0%	
CPU *				100.0%	
I	Stop	🌣 Manage	e վեղ		

## 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.

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- 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.
  - Optionally, select RSPAN (only with Catalyst 9x00 and if using ERSPAN is not possible).

Configure provisioning package

Ple	ease fill in t	he fields b	elow to add cor	figuration to the	e provisioning pac	kage to inst	all.
-----	----------------	-------------	-----------------	-------------------	--------------------	--------------	------

Sensor Application	
Serial number*	Center collection IP
	leave blank to use current collection IP
Gateway	
Capture mode	
• Optimal (default): analyze the most relevant flo	ows
○ All: analyze all the flows	
$\bigcirc$ Industrial only: analyze industrial flows	
○ Custom: set your filter using a packet filter	in tcpdump-compatible syntax
Monitor session type	
<ul> <li>ERSPAN: recommended choice for all devices</li> </ul>	

- O RSPAN: use it only with Catalyst 9X00 and when using ERSPAN is not possible
- 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.

Label	IP Address	Version	Location	Health status 🕕 🔻	Processing status 🕕	Active Discovery	Uptime
•			07294	Descended 1	Descended 1		10.0
•			194815				16.0
□ FCW2445P6X5	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.

Applications	Docker Layers	System Info	System Setting						
CCVSensor Cisco Cyber Vision	CCVSensor Cisco Cyber Vision sensor for aarch64								
TYPE docker	TYPE         VERSION           docker         3.1.0+202004150638								
Memory *			100.0%						
CPU *			100.0%						
Stop	о 🌣 м	anage _(Imj							

2. Navigate to App-DataDir.

Applications	Docker Layers	System Info	System S	etting	Syst
Resources	App-info A	pp-Config Ap	p-DataDir	Logs	
▼ Resources					
▼ Resource	Profile				
Profile:	exclusive 🔻				
CPU	1155	cpu-u	units		
Memory	862	MB			
Disk	128	MB			
Avail CPU (c	nu-units) 1155 Ava	il. Memory (MB) 86	2 Avail. Disk	(MB) 319	

3. Click Upload.

Cisco Systems Cisco IOx Local Manager									
Applications	Docker Layers	System Info	o System :	Setting	System Troubleshoot	CCVSensor			
Resources	App-info	App-Config	App-DataDir	Logs					
Current Location:	./								
Name			Туре		Size				
/									
O Upload	A Home								

- **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.

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	ECW2445P6X5	192.168.49.21	4.1.0+202202151440	Connected	Pending data	Enabled	4 days
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