



CYNERIO COLLECTOR INSTALLATION GUIDE

Version 1.2

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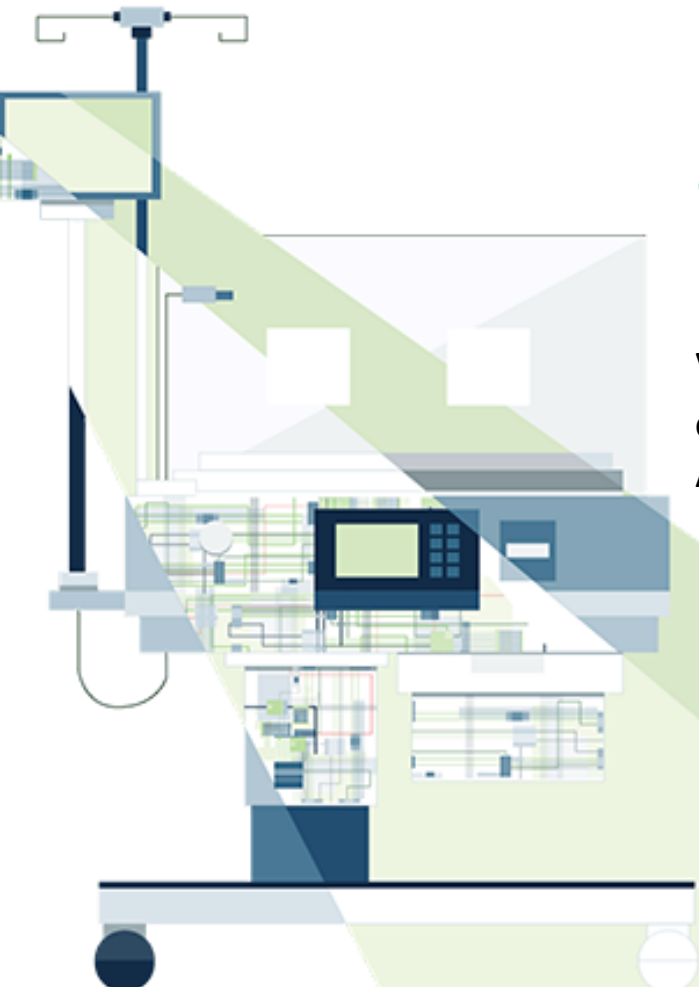


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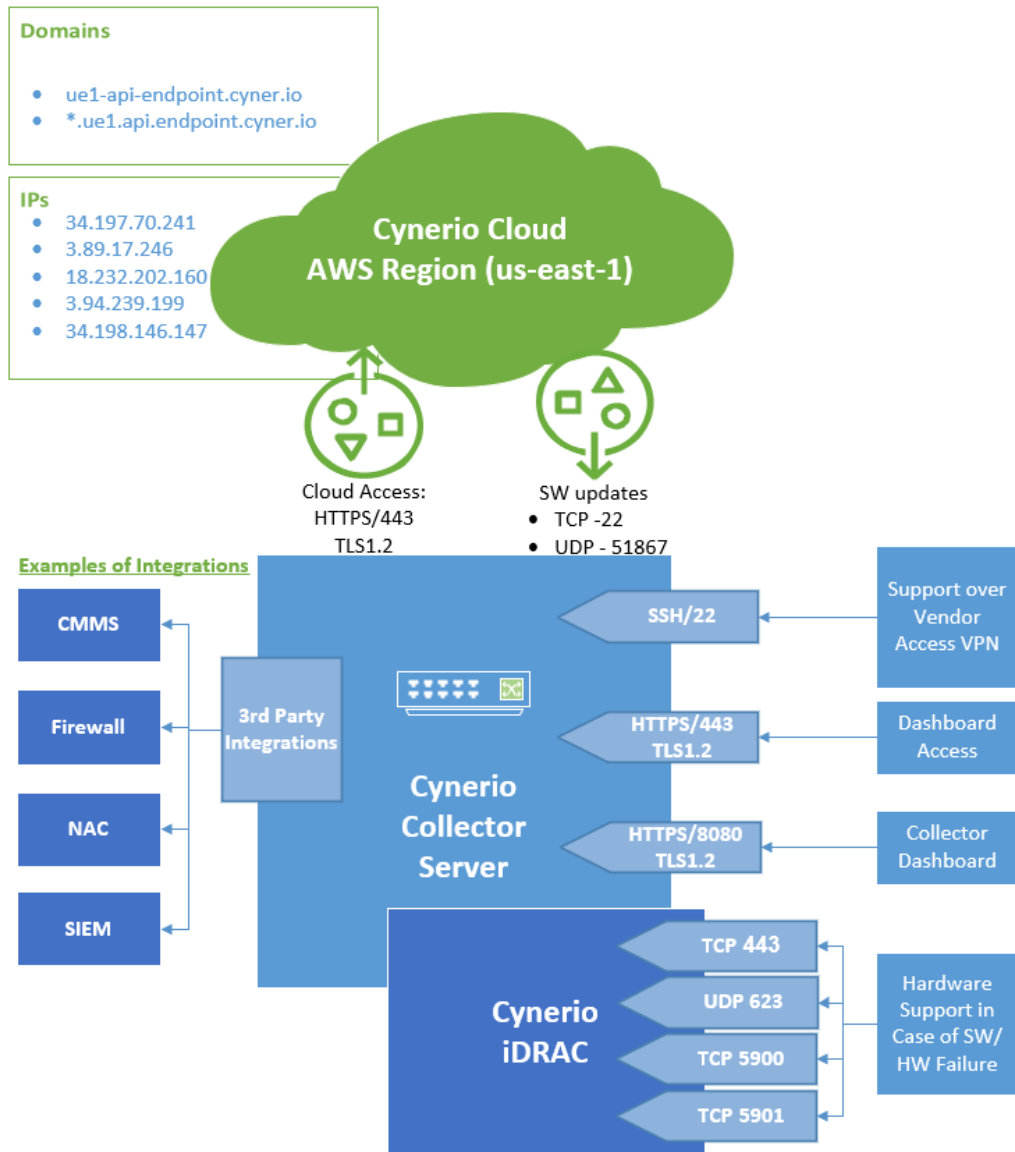
Introduction

This document describes the procedure for initial setup of the Collector appliance at your site and how to configure its network connectivity. It also introduces the Appliance Dashboard and explains how it can be used for troubleshooting network issues.

NOTE: Before you start the installation, make sure that all of the initial preparations described in the **PREREQUISITES** section are in place.

Cynerio Data Flow Diagram

The following diagram shows the main elements of the Cynerio data flow.



Collector Appliance Ports

The collector appliance comes with pre-configured ports to be used for various functions.

The appliance has the following ports:

- **Management** – used for initial configuration, and later for connecting to your network. This port connects the appliance to Cynerio’s cloud and enables users to access the Cynerio web console. It also enables Cynerio’s support team to perform remote maintenance and updates.
- **iDRAC** – used for hardware upkeep and troubleshooting.
- **SPAN** – used for monitoring the network traffic via your network switch.

NOTE: For a diagram of the device and its ports please refer to the **Cynerio Physical Appliance Spec**.

Installing the Collector Appliance

Prerequisites

Before you start the installation, make sure that the following preparations are in place:

- You have received an email from your account manager containing the **Username** and **Password** for the admin user.
- You have received and read the Cynerio Physical Appliance Spec document and prepared rack space and appropriate power supply for the appliance.
- If you will be assigning static IP addresses, then you have the designated addresses for the Management and iDRAC communication (Management IP + Gateway, iDRAC IP + Gateway).
- Internet access and cloud access for the Collector appliance have been configured on your firewall as follows:
 1. The **Management** port on each server should be allowed **outbound** connectivity to:
 - Domains and subdomains of:
 - ue1-api-endpoint.cyner.io
 - *.ue1-api-endpoint.cyner.io
 - IP addresses:
 - 34.197.70.241
 - 3.89.17.246
 - 18.232.202.160
 - 3.94.239.199
 - 34.198.146.147
 - Ports:
 - TCP 443
 - TCP 22
 - UDP 51867
 2. The **Management** port on each server port should be able to **listen** on ports:
 - TCP 443
 - TCP 8080
 - TCP 22
 3. The **iDRAC** port on each server should be able to **listen** on ports:
 - TCP 443
 - UDP 623
 - TCP 5900
 - TCP 5901

Step 1 – Setup Wizard

1. Set up your Collector appliance on a flat, stable surface.
2. Plug in the power cable and power on the unit.
3. Connect a monitor and keyboard to the appliance and verify that the system is initializing.
4. Connect a laptop directly to the Management port on the back of the appliance using an RJ45 cable.
5. Configure your laptop to the following IP and subnet: **192.168.0.2/ 255.255.255.0**.
6. Verify that the green link LED lights up on the Management NIC card.
7. On your laptop, open a browser to <https://192.168.0.1:8080>.
The browser opens, showing the login dialog.
8. Log in to the application using the username and password that you received from your account manager.

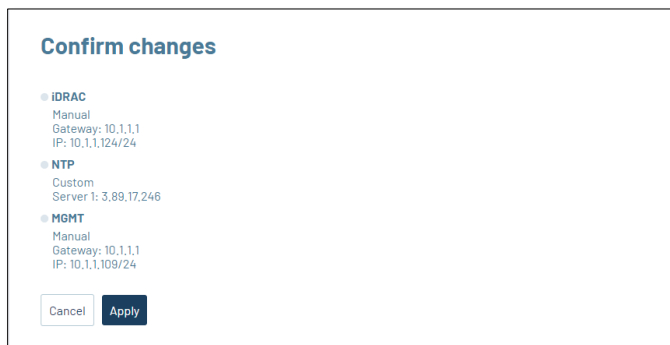
After a successful login, the **Setup wizard** is displayed.

The screenshot shows the 'Setup wizard' window. It has two main sections: 'Management NIC' and 'NTP Servers'.
Management NIC: Shows MAC: 24:6e:98:b4:8f:66. There are two radio buttons: 'DHCP' (unselected) and 'Manual' (selected). Below, there are input fields for 'IP' (containing '192.168.0.1 /') and 'Gateway' (containing 'IPv4 address').
NTP Servers: Shows two radio buttons: 'Use default NTP servers' (selected) and 'Custom' (unselected). Below, there are three input fields for 'Server 1', 'Server 2', and 'Server 3', each containing 'IPv4 address'.
At the bottom, there is a checkbox 'Do not show this wizard again' (checked) and 'Cancel' and 'Save' buttons.

9. In the **Management NIC** section, select the desired radio button to assign the management port by **DHCP** or **Manual** (default). If you select Manual, then –
 - a. You can either leave the default IP or specify a new IP and subnet (recommended) in CIDR format (e.g. 192.168.0.0/24). **NOTE:** Keep a record of the IP that you assigned.
 - b. Enter the **Gateway** that will be used.
10. In the **NTP Servers** section, select the desired radio button to **Use default...** (default) or to specify **Custom** servers. If you select **Custom**, you can leave the pre-configured server or you can specify one or more NTP servers to be used.

11. In the **iDRAC NIC** section, select a radio button to assign the iDRAC IP via **DHCP** (default) or **Manual**. If you select **Manual**, then –
 - a. Enter the desired IP and subnet in CIDR format.
 - b. Enter the desired Gateway.
12. Click **Save**.

A confirmation dialog shows the configuration changes that you made.

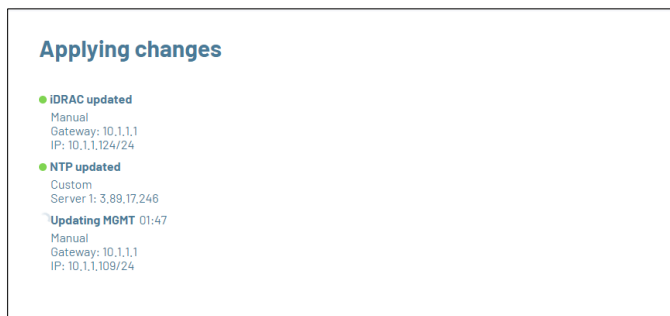


Confirm changes

- **iDRAC**
Manual
Gateway: 10.1.1.1
IP: 10.1.1.124/24
- **NTP**
Custom
Server 1: 3.89.17.246
- **MGMT**
Manual
Gateway: 10.1.1.1
IP: 10.1.1.109/24

13. Click **Apply**.

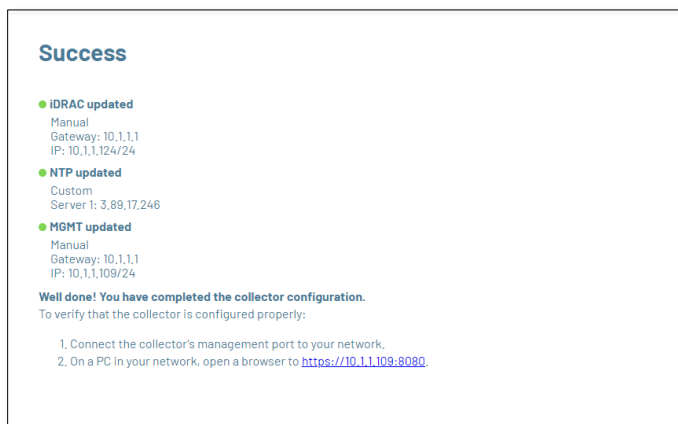
The changes are applied. It takes approx. 2 minutes for the updates to take effect.



Applying changes

- **iDRAC updated**
Manual
Gateway: 10.1.1.1
IP: 10.1.1.124/24
- **NTP updated**
Custom
Server 1: 3.89.17.246
- **Updating MGMT 01:47**
Manual
Gateway: 10.1.1.1
IP: 10.1.1.109/24

When the configuration is completed a “Success” dialog is shown.



Success

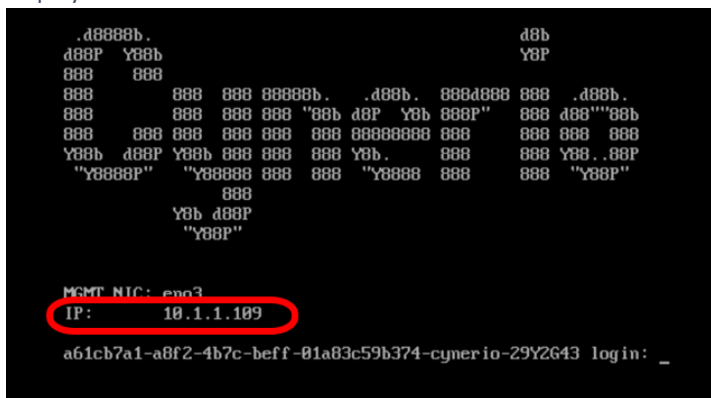
- **iDRAC updated**
Manual
Gateway: 10.1.1.1
IP: 10.1.1.124/24
- **NTP updated**
Custom
Server 1: 3.89.17.246
- **MGMT updated**
Manual
Gateway: 10.1.1.1
IP: 10.1.1.109/24

Well done! You have completed the collector configuration.
To verify that the collector is configured properly:

1. Connect the collector's management port to your network.
2. On a PC in your network, open a browser to <https://10.1.1.109:8080>.

Step 2 – Connecting the Collector to the Network

1. Connect the collector's management port to your network using an RJ45 cable.
2. If you selected DHCP for the Management port IP, then you need to identify the assigned IP using one of the following methods:
 - Connect a monitor and keyboard directly to the appliance and press "Enter". The assigned IP is displayed on the screen.



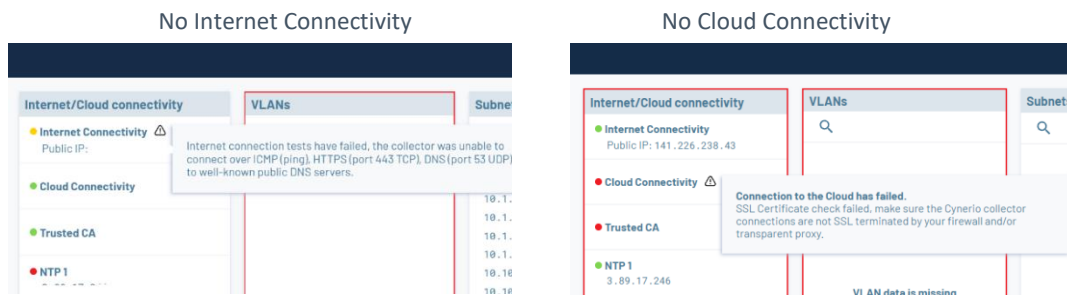
OR

- Check your DHCP database for the IP address, using the Collector's MAC address for reference (shown in the setup wizard).
3. On a PC in your network, open a browser to <https://<management IP>:8080>, using the management IP that you designated in Step 1 or that was assigned by the DHCP.
 4. Log in to the application using the username and password that you received from your account manager.

The Management Dashboard is displayed.



- In the top left panel, verify that all of the indicator lights are green or yellow, but not red.
NOTE: If there is Cloud Connectivity but not Internet Connectivity, then the system can still function properly. Therefore the Internet Connectivity indicator will be yellow, indicating a non-critical issue.
NOTE: If any of the indicators are not green, you can click on the tooltip to view details about the error, and possible mitigation steps. The following are some examples of error tooltips.



- In the IDRAC and Management panes, verify that the green indicator is shown in the header and check the network info.



NOTE: until you connect the SPAN ports to your network switch, the other panes in the dashboard are not expected to be populated.

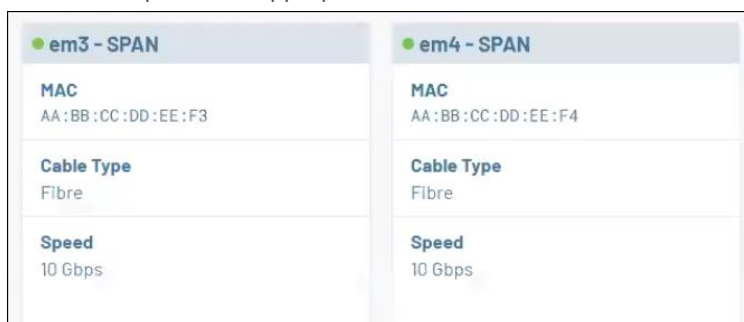
Step 3 – Connecting the SPAN Ports

In order to start collecting data from your network, you need to connect your network switches to the SPAN ports on the Collector appliance.

Step 4 – Monitoring Network Connectivity Using the Appliance Dashboard

Once you have connected the Collector appliance to your network switches, you can use the Appliance dashboard to monitor your network connectivity. You can check the following items:

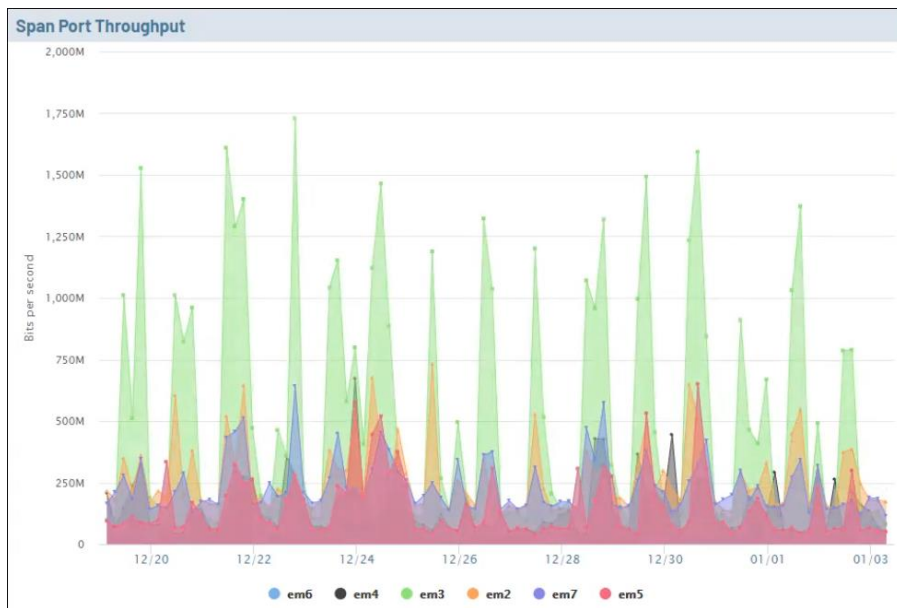
- Check the SPAN port panes to verify that each of your SPAN port connections is OK and that the connection speeds are appropriate.



- Check the **VLANs** and **Subnets** panes to make sure that all of the VLANs and Subnets in your network have been identified by the Collector.



- Check the **Span Port Throughput** graph to see the volume of traffic coming in to the Collector from each of the SPAN ports over time.



- Check the **Upload Traffic Volume** graph, to see the total volume of traffic sent from the Collector appliance to the cloud over time.

