Deploy the ETA 8250 packetstore

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This guide explains how to install the rack-mounted ETA 8250 packetstore.

Installation prerequisites

> ⚠️ **Important:** For maximum performance and compatibility, deploy sensors and packetstores in the same datacenter.

To install the ETA 8250, your environment must meet the following requirements:

Packetstore

2U of rack space and electrical connections for 2 x 1100 W power supplies.

Management

One 10/100/1000 BASE-T network port or one 10G BASE-SR port for packetstore management.

Monitoring (capture)

High-performance interfaces: One to two network ports for connection to 10 GbE or 25 GbE sources of packet data.
Management + monitoring interfaces: One to three network ports for management and IP-based packet feeds (RPCAP/ERSPAN/VXLAN/GENEVE).
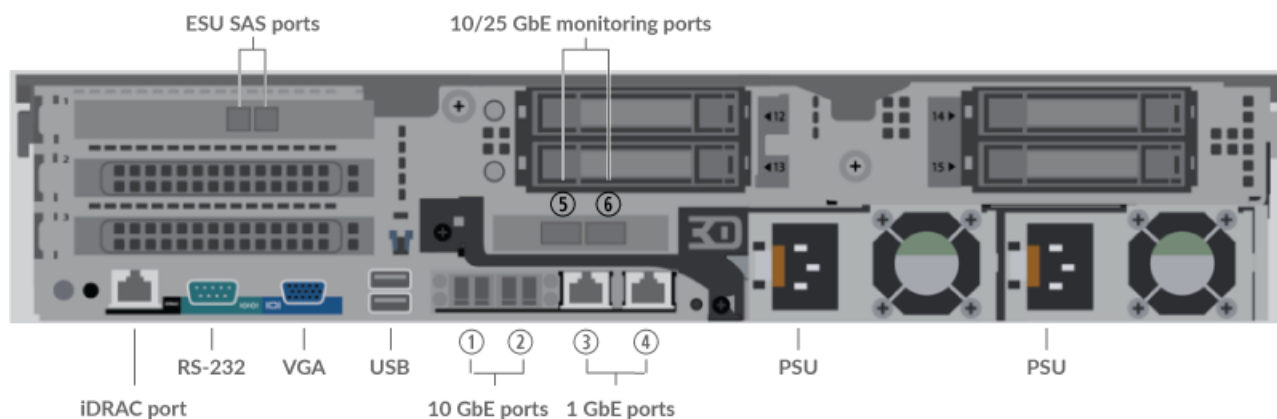
Network Access

TCP 443 must be open between the packetstore and any connected console or sensors, including any system that connects to the system for administration.

For more information about the interfaces on the ExtraHop system, see the ExtraHop Hardware FAQ ⬀.

Rear panel ports

ETA 8250

- One iDRAC interface port
- One RS-232 serial port to connect a console device
- One VGA port to connect an external display
- Two USB 3.0 ports to connect input devices such as a keyboard and mouse
- Two 10 GbE ports. Ports 1 and 2 can be configured as a management port or management and RPCAP/ERSPAN/VXLAN/GENEVE target.

While 10 GbE management + capture interfaces on this sensor can conduct management functions at 10 Gbps speeds, processing traffic such as ERSPAN, VXLAN, and GENEVE is limited to 1 Gbps.

> **Tip:** In environments with asymmetric routing adjacent to the high-performance interfaces, ping replies might not get back to the sender.

- Two 10/100/1000 BASE-T network ports. Port 3 is the primary management port. Ports 3 and 4 can be configured as a monitor port, management port or management and RPCAP/ERSPAN/VXLAN/ GENEVE target.
- Two 25 GbE-capable ports. Ports 5 and 6 are the high-performance monitoring (capture) interfaces. Both interfaces can also be configured as high-performance ERSPAN/VXLAN/GENEVE targets.
- Two SAS ports to connect up to four 96 TB extended storage units (ESU). You cannot connect older 72 TB ESUs to the ETA 8250.
- Two power ports to connect the packetstore to an AC power source

Supported packet source connectivity

The Trace 8250 can accept packets through ports 1 - 6. You can connect the ports according to the table below.

Connector	Peer Connector for Packet Source	Customer-Supplied Cabling	Supported Operating Speeds
Transceiver-based Connectivity			
25 GbE SFP28 SR transceiver	25 GbE SFP28 SR transceiver	Multi-mode fiber LC connectors	25 Gbps, 10 Gbps
	10 GbE SFP+ SR transceiver	Multi-mode fiber LC connectors	10 Gbps
Direct Attach Connectivity			
Customer-supplied SFP28 DAC cable, such as the Mellanox MCP2M00-Axxx series			25 Gbps
Customer-supplied RJ45 Ethernet cable			1 Gbps

Set up the packetstore

1. Rack mount the packetstore.

   Install the packetstore in your data center with the included rack-mounting kit. The mounting kit supports most four-post racks with either round or square holes.

   Orient the hardware to ensure proper airflow. The cold air intake is through the front of the packetstore.

2. Connect port 3 to your management network.

   The ETA 8250 packetstore has two 10/100/1000 BASE-T network ports. With a network patch cable, connect the management port on the packetstore to your management network. Port 3 is the default management port.

3. Connect the monitoring port.

   With the appropriate network cable, connect a monitoring port on the packetstore to a network tap or mirror port on the switch.

> ⚠ **Important:** The ExtraHop packetstore requires a duplicate feed of the traffic that is sent to the ExtraHop sensor.

> 📄 **Note:** The link lights on the monitoring interface ports do not illuminate until you register the ExtraHop sensor, recordstore, or packetstore with your product key.

4. Connect the iDRAC port.

   To enable remote management of the packetstore, connect your management network to the iDRAC port with a network patch cable.

5. Install the front bezel.

   You must install the front bezel if you want to configure the appliance through the LCD display.

   Insert the USB connector on the right side of the bezel into the USB port on the front of the appliance. Press and hold the release button on the left end of the bezel and push the bezel flush with the appliance until it snaps into place.

6. Optional: Connect any extended storage units (ESUs).

   For information about configuring extended storage units, see Add storage capacity to an ExtraHop packetstore 🗗.

   > 📄 **Note:** By default, the ETA 8250 can achieve up to 10 Gbps throughput. At least one extended storage unit (ESU) must be attached to the ETA 8250 to support 25 Gbps throughput.

7. Connect the two supplied power cords to the power supplies on the back of the packetstore, and then plug the cords into a power outlet.

   If the packetstore does not power on automatically, press the power button ⏻ on the front-right of the ßpacketstore.

Configure the management IP address

DHCP is enabled by default on the ExtraHop system. When you power on the system, interface 3 attempts to acquire an IP address through DHCP. If successful, the IP address appears on the home screen of the LCD.

If your network does not support DHCP, you can configure a static IP address through the LCD menu on the front panel or through the command-line interface (CLI).

Configure a static IP address through the LCD

Complete the following steps to manually configure an IP address through the front panel LCD controls.

1. Make sure that the default management interface is connected to the network and the link status is active.
2. Press the select button (✓) to begin.
3. Press the down arrow button to select `Network`, and then press the select button.
4. Press the down arrow to select `Set static IP`, and then press the select button.
5. Press the left or right arrows to select the first digit to change, and then press the up or down arrows to change the digit to the desired number.

   Repeat this step for each digit you need to change. After you configure the desired IP address, press the select button.
6. On the `Network mask` screen, press the left or right arrows to select the first digit to change, and then press the up or down arrows to change the digit to the desired number.

   Repeat this step for each digit you need to change. After you configure the desired network mask, press the select button.
7. On the `Default gateway` screen, press the left or right arrows to select the first digit to change, and then press the up or down arrows to change the digit to the desired number.

Repeat this step for each digit you need to change. After you configure the desired default gateway, press the select button.

8. Confirm your modified network settings on the `Settings saved` screen, and then press any button to return to the `Network Menu`.

> **Note:** Each address is preceded by a letter that identifies whether it is the system IP address (I), the gateway address (G), or the netmask (N).

9. Press the down arrow and scroll to `Set DNS servers`, and then press the select button.

10. Press the left or right arrows on the `DNS1` screen to select the first digit to change, and then press the up or down arrows to change the digit to the desired number.

    Repeat this step for each digit you need to change, and then press the select button to continue to the `DNS2` screen.

11. Configure a second DNS server.

12. Confirm the DNS settings on the `Settings saved` screen, and then press any button to return to the `Network Menu`.

13. Press the down arrow twice until ← `Back` appears, and then press the select button.

14. Press the down arrow twice to select iDRAC.

15. Configure the iDRAC DHCP, IP, mask, gateway, and DNS in the same manner as the IP address.

16. Press the `X` button to return to the main menu.

Configure an IP address through the CLI

Before you begin
You can access the CLI by connecting a USB keyboard and SVGA monitor to the appliance or through an RS-232 serial (null modem) cable and a terminal emulator program. Set the terminal emulator to 115200 baud with 8 data bits, no parity, 1 stop bit (8N1), and hardware flow control disabled.
Complete the following steps to manually configure an IP address from the CLI.

1. Establish a connection to the ExtraHop system.

2. At the login prompt, type `shell` and then press ENTER.

3. At the password prompt, type the system serial number and then press ENTER.

    The serial number is printed on a label on the back of the sensor. The serial number can also be found on the LCD display on the front of the sensor in the `Info` section.

4. Enable privileged commands:

    ```
    enable
    ```

5. At the password prompt, type the serial number, and then press ENTER.

6. Enter configuration mode:

    ```
    configure
    ```

7. Enter interface configuration mode:

    ```
    interface
    ```

8. Specify the IP address and DNS settings in the following format:

    ip ipaddr *<ip_address>* *<netmask>* *<gateway>* *<dns_server>*
    For example:

    ```
    ip ipaddr 10.10.2.14 255.255.0.0 10.10.1.253 10.10.1.254
    ```

9. Leave configuration mode:

```
exit
```

10. Save the running configuration:

```
running_config save
```

11. Type `y` and then press ENTER.

> **Note:** The system updates the running configuration file and applies the new settings when a link is detected on the interface.

(Optional) Configure the 10 GbE management interface

You can configure a 10 GbE port (port 1 or port 2) to manage the system. The commands below move the settings from port 3 to port 1 and then disables port 3. Alternatively, you can configure the 10 GbE management interface in the Administration settings.

1. Make sure that the port 1 is connected to the 10 GbE network.
2. Establish an SSH connection to the ExtraHop system.
3. At the login prompt, type `shell` and then press ENTER.
4. At the password prompt, type the system serial number and then press ENTER.

   The serial number is printed on a label on the back of the sensor. The serial number can also be found on the LCD display on the front of the sensor in the `Info` section.
5. Enable privileged commands:

```
enable
```

6. At the password prompt, type the serial number, and then press ENTER.
7. Enter configuration mode:

```
configure
```

8. Enter interface configuration mode:

```
interface 1
```

9. Move the interface settings:

> ⚡ **Warning:** This command overwrites the settings for Interface 1 with the settings from Interface 3. The current settings for Interface 1 will be lost and Interface 3 will be disabled.

```
take_settings 3
```

10. Type `Y` to proceed and then press ENTER.

Configure the packetstore

Open a web browser and log in to the Administration settings on the ExtraHop system through `https://<extrahop-hostname-or-IP-address>/admin` with the `setup` user account. The password is the system serial number that appears in the Info section of the LCD display and on the label on the back of the packetstore.

- Register your ExtraHop system ⬈
- Connect sensors and console to the packetstore ⬈
- Review the ExtraHop Post-deployment Checklist ⬈ and configure additional packetstore settings.

Verify the configuration

After you have deployed and configured the packetstore, verify that packets are being collected.

Before you begin
You must have a minimum user privilege ⤢ of **view and download packets** to perform this procedure.

1. Log in to the ExtraHop system through `https://<extrahop-hostname-or-IP-address>`.
2. Make sure that the **Packets** menu appears in the top menu.

3. Click **Packets** to start a new packet query.
   You should now see a list of the collected packets.

If the Packets menu item does not appear, revisit the Connect sensors and console to the packetstore ⤢ section. If no results are returned when you perform a packet query, check your network settings. If either issue persists, contact ExtraHop Support ⤢.