

Deploy the ExtraHop Discover EDA 6100, EDA 8100, or EDA 9100 Appliances

Published: 2016-04-08

This guide explains how to install the rack-mounted EDA 6100, EDA 8100, and EDA 9100 ExtraHop Discover appliances.

System requirements

The ExtraHop system uses the rack-mounted ExtraHop appliance in conjunction with a browser-based graphical user interface. Installation of the Discover appliance has the following requirements:

EH6100

Appliance

1U of rack space and 495W of power

Network Access

Four 10/100/1000 BASE-T network ports and two 10G BASE-SR ports

EH8100

Appliance

1U of rack space and 2x495W of power

Network Access

Four 10/100/1000 BASE-T network ports and two 10G BASE-SR ports

EH9100

Appliance

2U of rack space and 2x750W of power

Network Access

Four 10/100/1000 BASE-T network ports and four 10G BASE-SR ports

Install the Discover appliance

To install the Discover appliance, complete the following steps.

1. Rack Mount the Discover Appliance

Install the Discover appliance in your datacenter using the included rack-mounting kit, which supports most four-post racks with either round or square holes.

2. Connect Port 1

The Discover appliance contains four 10/100/1000 BASE-T network ports and uses port 1 to administer the system. Use a network patch cable to connect the Gb1 port on the Discover appliance to the management network.

Configure an IP address

You can configure the Discover appliance with a dynamic IP address through DHCP IP or configure an IP address manually. The front panel of the Explore appliance displays the assigned IP address.

Dynamically Acquired IP Address

DHCP is enabled by default. When you power on the system, interface 1 attempts to acquire an IP address through DHCP.

Static IP Address

If your network does not support DHCP, you can configure a static IP address either through the CLI or LCD.

Configure an IP address (CLI)

If your network does not support DHCP, you can use the ExtraHop web administration utility or the command line interface (CLI) to configure a static IP address. You can access the CLI from a USB keyboard and SVGA monitor or by using an RS-232 serial cable and a terminal-emulator program. The terminal emulator must be set to 115200 bps with 8 data bits, no parity, and 1 stop bit (8N1). Hardware flow control should be disabled.

Refer to the following table for RS-232 serial cable pin assignments.

Signal Name	DB-9 Pin (Server Pin)	DB-9 Pin (Workstation Pin)
FG (Frame Ground)	-	-
TD (Transmit Data)	3	2
RD (Receive Data)	2	3
RTS (Request to Send)	7	8
CTS (Clear to Send)	8	7
SG (Signal Ground)	5	5
DSR (Data Set Ready)	6	4
CD (Carrier Detect)	1	4
DTR (Data Terminal Ready)	4	1 and 6

1. Log in to the console with the shell user account. The password is the service tag number on the pullout tab on the front of the appliance.
2. Enable the privilege commands.

```
extrahop>enable
Password:
extrahop#
```

3. Enter the configuration section.

```
extrahop#config
extrahop(config)#
```

4. Enter the interface section.

```
extrahop(config)#interface
extrahop(config-if)#
```

5. Set the IP address and DNS using this syntax: `ip ipaddr IP_ADDRESS NETMASK GATEWAY DNS_SERVER`

```
extrahop(config-if)#ip ipaddr 10.10.2.14 255.255.0.0 10.10.1.253
10.10.1.254
extrahop(config-if)#ip dnsservers 10.10.1.254 10.10.2.254
```

6. Save the running config.

```
extrahop(config-if)#exit
extrahop(config) * #running_config save
Would you like to write configuration changes to default config [Y/n]?: y
extrahop(config)#
```

After you assign a static IP address, the IP address appears on the LCD at the front of the appliance.

Configure an IP Address (LCD)

If an IP address has not been configured, the LCD displays `NO IP`. Complete the following steps to configure the IP address.

1. Press the checkmark button.
2. Press the arrow buttons to select **Net**.
3. Select **Host**.
The screen displays the host name. Return to the previous screen by scrolling to the up arrow on the screen and selecting it.
4. Select **DHCP** to see how the IP address is configured. Press the left and right arrow buttons to select an option and then press the **Select** button.
5. On the Net screen, select **IP** and press the left and right arrow buttons to move between the digits. On the selected digit, click the checkmark button. The digit blinks when selected. While the digit is blinking, press the left and right arrow buttons to change the digit value.
6. After you have entered the number, click the checkmark button.
7. Press the left arrow button to navigate to the up arrow on the screen and select it.
8. On the Save screen, select **Yes** and then press the checkmark button.
9. Wait a moment to be redirected to the Net screen. Repeat these steps to set the mask, gateway, and up to two DNS servers.
10. Press the arrow keys to scroll back to the **Home** menu and select **iDRAC**.
11. Configure the iDRAC DHCP, IP, mask, gateway, and DNS in the same manner as the IP.
12. On the Net screen, select **Errors** to view system events such as CPU errors, undetected hard drives, or missing power supplies. When an error occurs, the LCD turns amber and displays the error immediately.
13. If there are multiple errors, press the left and right arrow buttons to scroll between the error messages. Press the **Select** button to exit the error screen. The **Clear** option removes the list of messages from the error screen.
14. When the system is not running, the LCD screen displays `ExtraHop`.

Configure the System Time

The default time server setting is `pool.ntp.org`. If you want to maintain the default setting, skip this procedure and go to the next section.

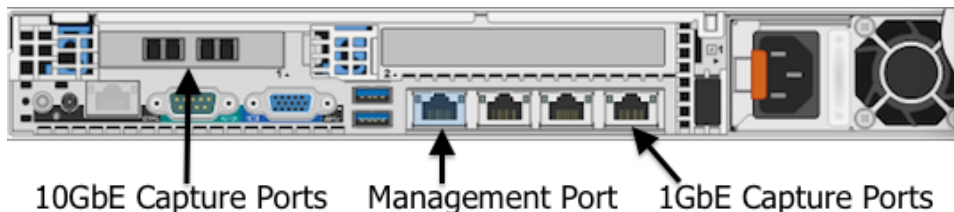
1. In the System Settings section, click **System Time**.
2. Click **Configure Time**.
3. Click the Time Zone drop-down list and select a time zone.
4. Click **Save and Continue**.
5. Type the IP address or FQDN for the time servers in the Time Server fields.
6. Click **Save**, and then click **Done**.

Connect the monitoring port

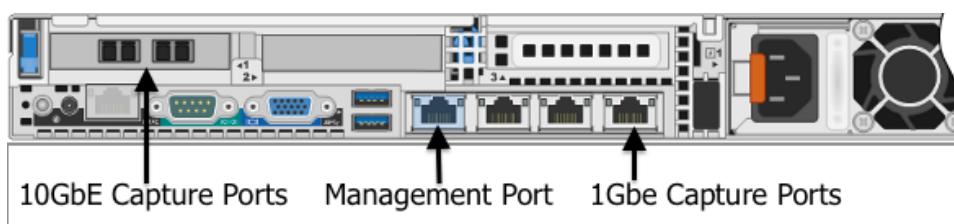
Use a network patch cable to connect the monitoring port on the Discover appliance to a network tap or mirror port on the switch.

Refer to the following diagrams.

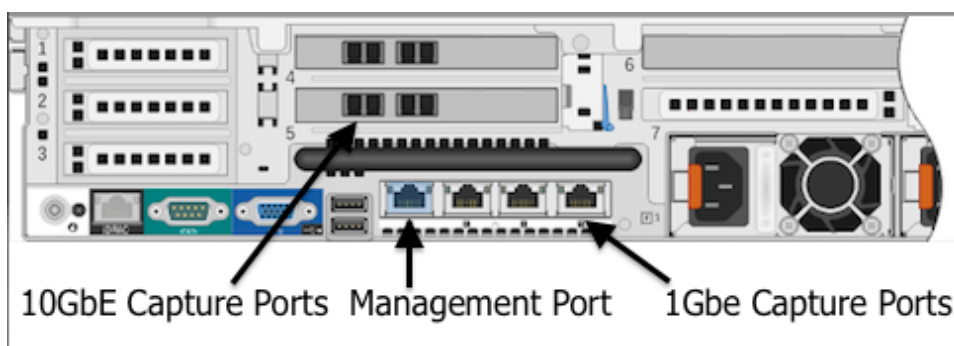
EH6100



EH8100



EH9100



Start using the Discover appliance

After logging in, you can navigate the ExtraHop browser-based graphical user interface to configure alerts, monitor and troubleshoot your networks, view metrics for your devices, examine relative performance within device groups, and adjust settings.

1. Open a browser window and navigate to `https://<extrahop_ip>`, where `<extrahop_ip>` is the IP address displayed on the LCD at the front of the Discover appliance.

The default login is `setup` and password is the service tag number on the pullout tab on the front of the appliance.

2. Optional: You can modify user names and passwords in the ExtraHop Admin UI at `https://<extrahop_ip>/admin`.

Enable the 10/100/1000 BASE-T ports

On the EH6100, EH8100, and EH9100 appliances, the 10GbE ports support SFP+ SR-fiber modules. In certain circumstances, you might want to use the additional 10/100/1000 BASE-T ports (labeled 2, 3, and 4 on the Discover appliance) for monitoring instead of the 10G BASE-SR ports.

Complete the following steps to enable the 10/100/1000 BASE-T ports.

1. In your browser, navigate to the ExtraHop web administration utility at `https://<extrahop_ip>/admin`, where `<extrahop_ip>` is the IP address displayed on the LCD at the front of the Discover appliance.
2. Log in to the system with the assigned user name and password.
3. Go to the Network Settings section and click **Connectivity**.
4. In the Interface Status section, a diagram of the back of the Discover appliance is displayed.

Blue Ethernet Port

Identifies the management port.

Black Ethernet Port

Specifies that the port is licensed and enabled but down.

Green Ethernet Port

Specifies that the licensed port has an active Ethernet cable connected.

Gray Ethernet Port

Identifies a disabled or unlicensed port.

5. Configure interface 1 for management:
 - To configure interface 1 in the Admin UI:
 1. In the Interface 1 section, click the **Change** button.
 2. Click the **Interface Mode** drop-down list, select **Management Port**, change the other settings as needed, and click **Save**.

For more information about throughput, refer to the Connectivity section in the [Admin UI Guide](#).

- To configure interface 1 in the Admin UI, enter the following commands:

```
extrahop#configure
extrahop(config)#interface
extrahop(config-if)#ip ipaddr <extrahop_management_ip> <netmask>
<gateway>
```

For more information about entering commands in the CLI, refer to the Shell Commands section of the [Admin UI Guide](#).