Deploy the ExtraHop Discover 3000, 6000, or 8000 Appliances

This guide explains how to install the rack-mounted ExtraHop EH3000, EH6000, and EH8000 Discover appliances.

System requirements

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

EH3000

> **Appliance**
>> 1U of rack space and 495W of power
>
> **Network Access**
>> Four 10/100/1000 BASE-T network ports

EH6000

> **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

EH8000

> **Appliance**
>> 2U of rack space and 750W of power
>
> **Network Access**
>> Four 10/100/1000 BASE-T network ports and two 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 the Gb1 port 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

DHCP is enabled by default on the ExtraHop appliance. When you power on the appliance, interface 1 attempts to acquire an IP address through DHCP. If successful, the IP address appears on the home screen of the LCD. If an IP address has not been configured, the LCD displays `No IP`.

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 an IP address (CLI)

1. Establish a connection to the ExtraHop appliance.
2. At the login prompt, type `shell` and then press ENTER.
3. At the password prompt, type the service tag number found on the pullout tab on the front of the appliance, and then press ENTER.
4. Enable the privilege commands.

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

5. Enter the configuration section.

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

6. Enter the interface section.

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

7. 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
   ```

8. 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 a static IP address through the front panel

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

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 the arrow.
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 the arrow.

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 address.

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.

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.
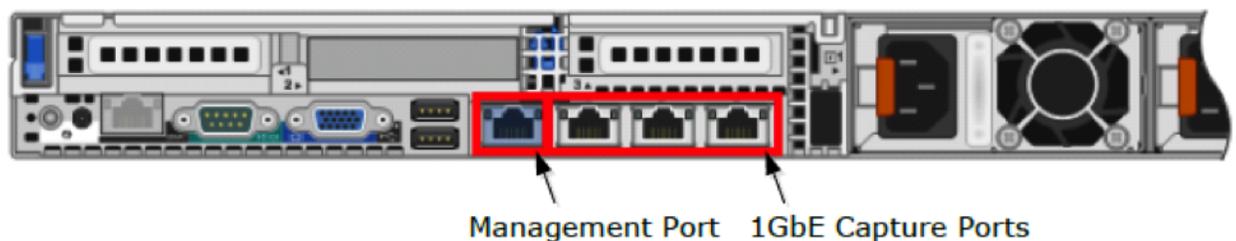
1. In the System Settings section, click **System Time**.

2. Click **Configure Time**.

3. Click the Time Zone drop-down list and select a time zone.

4. Click **Save and Continue**.

5. Select Use NTP server to set time and then click **Select**.

6. Type the IP address or fully qualified domain name (FQDN) for the time servers in the Time Server fields.

7. Click **Save**, and then click **Done**.
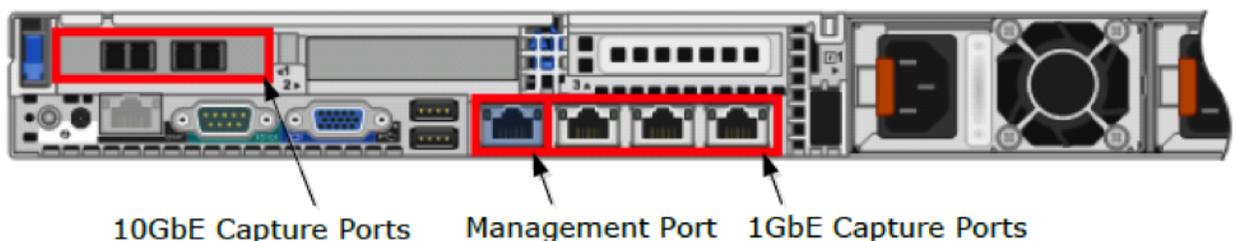
Connect the monitoring port

Use a network patch cable to connect the monitoring port on the ExtraHop appliance to a network tap or mirror port on the switch.
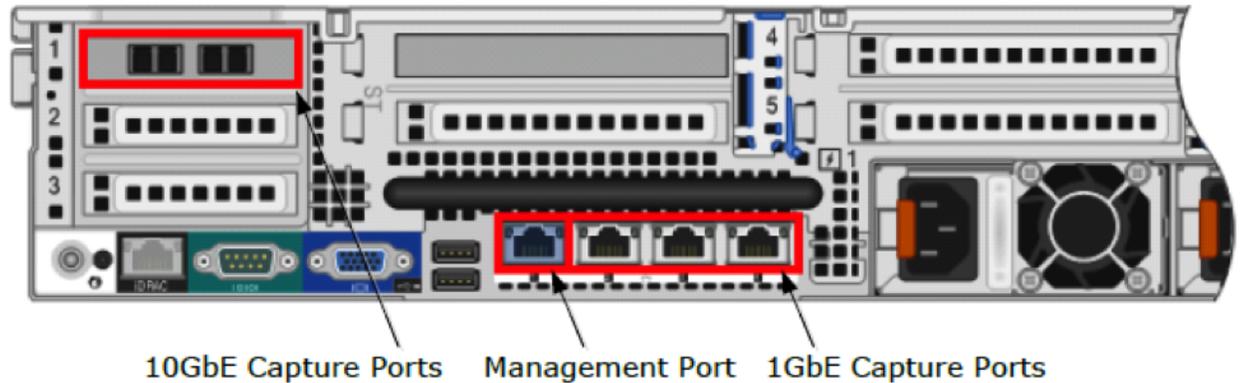
Refer to the following diagrams.

EH3000

Management Port   1GbE Capture Ports

EH6000

10GbE Capture Ports   Management Port   1GbE Capture Ports

EH8000

10GbE Capture Ports   Management Port   1GbE Capture Ports

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 (EH6000/8000 only)

On the EH6000/8000, the 10GbE ports support SFP+ SR-fiber modules. In certain circumstances, you might want to configure the additional 10/100/1000 BASE-T ports (labeled Gb2, Gb3, and Gb4 on the Discover appliance) for monitoring instead of the 10G BASE-SR ports.

The Gb1 port is a dedicated management interface and cannot be configured for monitoring.

Depending on your license, the Gb3 and Gb4 ports might be disabled on the ExtraHop system. Contact ExtraHop sales at sales@extrahop.com for information about licensing these additional ports.

1. In your browser, navigate to the Web UI on the ExtraHop appliance at `https://<extrahop_ip>/admin`, where `<extrahop_ip>` is the IP address displayed on the LCD at the front of the Discover appliance. Log into the system with the assigned user name and password.
2. Go to the Network Settings section and click **Connectivity**.
3. 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.

4. 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 ⌐.