

Deploy the ExtraHop Discover 10200 Appliance

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This guide explains how to install the rack-mounted EDA 10200 ExtraHop Discover appliance.

Installation prerequisites

To install the Discover appliance, your environment must meet the following requirements:

Appliance

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 appliance management.

Monitoring (capture)

High-performance interfaces: One to four network ports for connection to 100 GbE, 40 GbE, 25 GbE, or 10 GbE sources of packet data, depending on the ordered configuration.

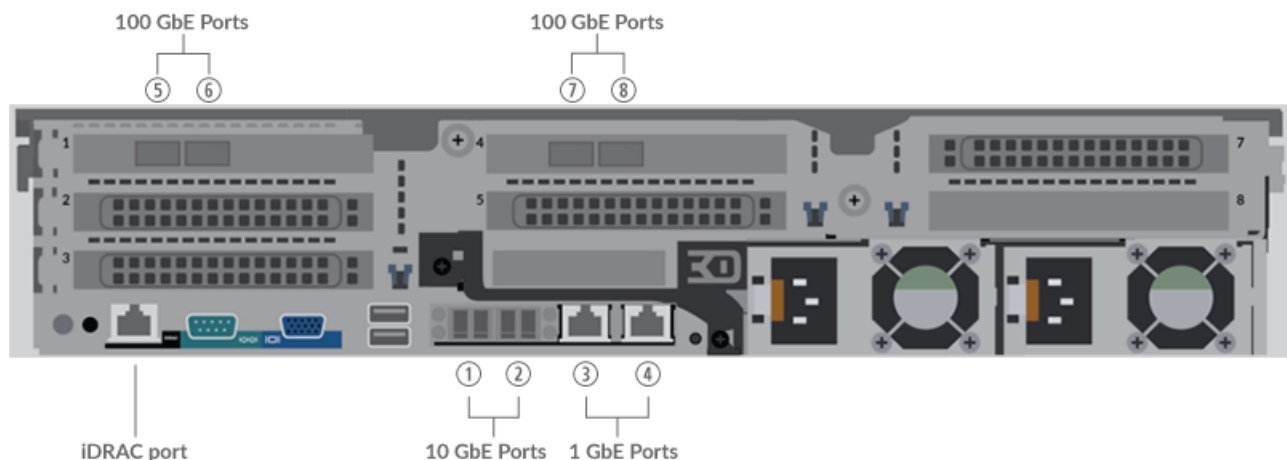
Management + monitoring interfaces: One to three network ports for connection to 1 GbE sources of packet data.

Network Access

The TCP 443 port must be open between the Discover appliance and any system that connects to the appliance for administration through the ExtraHop Admin UI.

Rear panel ports

EDA 10200



- 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 power ports to connect the appliance to an AC power source
- Two 10 GbE ports. Ports 1 and 2 can be configured as a management port, management and flow target, or management and RPCAP/ERSPAN/VXLAN target.

- Two 10/100/1000 BASE-T network ports. Port 3 is the primary management port. Both ports can be configured as a monitoring port, management port, management and flow target, or management and RPCAP/ERSPAN/VXLAN target.
- Four 100 GbE-capable ports on two network adapters. These ports are the high-performance monitoring (capture) interfaces.

Supported packet source connectivity

The Discover 10200 can accept packets through ports 1 - 8. The ports can be connected according to the table below.

Discover 10200 Appliance Connector	Peer Connector for Packet Source	Customer-Supplied Cabling	Supported Operating Speeds
Transceiver-based Connectivity			
100 GbE QSFP28 SR4 transceiver	100 GbE QSFP28 SR4 transceiver	Multi-mode fiber MPO connectors	100 Gbps, 40 Gbps
	40 GbE QSFP+ SR4 transceiver	Multi-mode fiber MPO connectors	40 Gbps
25 GbE SFP28 SR transceiver (with QSFP28-to-SFP28 adapter)	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 QSFP28 DAC cable, such as the Mellanox MCP1600-Cxxx series			100 Gbps
QSFP28-to-SFP28 adapter with customer-supplied SFP28 DAC cable, such as the Mellanox MCP2M00-Axxx series			25 Gbps
Customer-supplied RJ45 Ethernet cable 1 Gbps			1 Gbps



Note: The packet processing capability of the appliance is 100 Gbps. While it is possible to oversubscribe the appliance by sending more than 100 Gbps of packet data across the four 100 GbE-capable ports, inbound workloads that exceed 100 Gbps will result in dropped packets.

Set up the appliance

1. Rack mount the Discover appliance.
Install the Discover appliance in your data center with the included rack-mounting kit. The mounting kit supports most four-post racks with either round or square holes.
2. Connect port 3 to your management network.
The EDA 10200 appliance has two 10/100/1000 BASE-T network ports. With a network patch cable, connect the management port on the Discover appliance to your management network. Port 3 is the default management port on the EDA 10200.
3. Connect the monitoring port.

With the appropriate network cable, connect port 7 on the Discover appliance to a network tap or mirror port on the switch. When configuring multiple monitoring ports, make sure that the transceivers are balanced across adapters. For example, with two transceivers, connect the cable to the transceivers on port 5 and port 7.

4. Optional: Connect the iDRAC port.

To enable remote management of the Discover appliance, 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. Connect the power cords.

Connect the two supplied power cords to the power supplies on the back of the appliance, and then plug the cords into a power outlet. If the appliance does not power on automatically, press the power

button  on the front-right of the appliance.

Configure the management IP address

DHCP is enabled by default on the ExtraHop appliance. When you power on the appliance, 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 `DHCP` and then press the select button.
5. Press the down arrow to select `No`, and then press the select button to disable DHCP.
6. Press the down arrow to select `Set static IP`, and then press the select button.
7. 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.
8. 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.
9. 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.
10. Confirm your modified network settings on the `Settings saved` screen, and then press any button to return to the `Network Menu`.
11. Press the down arrow and scroll to `Set DNS servers`, and then press the select button.

12. 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.
13. Configure a second DNS server.
14. Confirm the DNS settings on the `Settings saved` screen, and then press any button to return to the `Network Menu`.
15. Press the down arrow twice until `# Back` appears, and then press the select button.
16. Press the down arrow twice to select `iDRAC`. Configure the `iDRAC DHCP`, `IP`, `mask`, `gateway`, and `DNS` in the same manner as the `IP address`.
17. Press the `x` button to return to the main menu.

Configure an IP address through the CLI

You can access the CLI by connecting a USB keyboard and SVGA monitor to the appliance or through 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, 1 stop bit (8N1), and hardware flow control should be disabled.

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 system serial number and then press ENTER. The serial number is printed on a label on the back of the appliance. The serial number can also be found on the LCD display on the front of the appliance 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 the interface configuration mode:

```
interface
```

8. Run the `ip` command and 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 the interface configuration section:

```
exit
```

10. Save the running config file:

```
running_config save
```

11. Type `y` and then press ENTER.

(Optional) Configure the 10 GbE management port

You can configure a 10 GbE port (port 1 or port 2) to manage the appliance. 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 Admin UI.

1. Make sure that port 1 is connected to the 10 GbE network.

2. Establish an SSH connection to the ExtraHop appliance.
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 appliance. The serial number can also be found on the LCD display on the front of the appliance 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 the 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 Discover appliance

After you configure an IP address for the Discover appliance, you can log into the Admin UI on the Discover appliance through the following URL: `https://<discover_ip_address>/admin`. Then, complete these recommended procedures.

 **Note:** Log into the Admin UI 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 appliance.

- [Register your ExtraHop appliance](#) 
- [Configure the system time](#) 
- [Configure email settings for notifications](#) 
- Review the [Discover and Command Post-deployment Checklist](#) 