

Deploy the ExtraHop Command Appliance with VMware

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The ExtraHop Command appliance (ECA) is a virtual appliance that provides centralized management and reporting across multiple ExtraHop appliances distributed across data centers, branch offices, and the public cloud. For most large ExtraHop deployments, a dedicated ECA is the most efficient way to manage and report across the remote nodes.

The following procedures explain how to deploy an ExtraHop Command appliance with the vSphere client running on a Windows machine. You must have experience administering your VMware ESX and ESXi environments to complete these procedures.

Virtual machine requirements

You must have an existing installation of VMware ESX/ESXi server version 5.5 or later capable of hosting the Command virtual appliance. In addition, you need a vSphere client to deploy the OVF file and to manage the virtual machine.

The Command appliance is distributed as an OVA package that includes a preconfigured virtual machine (VM) with a 64-bit, Linux-based OS that is optimized to work with VMware ESX and ESXi version 5.5 and later.

The following ESX/ESXi server hardware is required:

Processor

Four or more Intel processing cores with hyper-threading support, VT-x or AMD-V technology, Supplemental Streaming SIMD Extensions 3 (SSSE3) support, and a processing speed of 2.5 GHz or higher

Memory

4 GB

Disk

44 GB or higher

Network

One 1 Gbps Ethernet network port

Place in network

Near one of the managed ExtraHop appliances, but accessible on port 443 to all managed ExtraHop appliances


Performance guidelines

The performance of the ExtraHop Command appliance depends on the number of sensors you are deploying in combination with the number of devices you expect the system to discover in your environment. To determine the appropriate sizing, see the [Command Appliance Performance Guidelines](#).


Deploy the Command appliance

Before you begin

If you have not already done so, download the ExtraHop Command appliance virtual machine package for VMware from the [ExtraHop Customer Portal](#).

 **Note:** If you must migrate the VM to a different host after deployment, shut down the virtual appliance first and then migrate with a tool such as VMware VMotion. Live migration is not supported.


1. Start the VMware vSphere client and connect to your ESX server.
2. Go to the File menu and select **Deploy OVF Template**.
3. Follow the Virtual Machine wizard prompts to deploy the virtual machine. For most deployments, the default settings are sufficient.
 - a) Browse to the location of the downloaded OVA file, select the file, and then click **Next**.
 - b) Review and verify the OVF template details and click **Next**.
 - c) Type the VM name and location. Give the VM a unique and specific name for the ESX Inventory and then click **Next**.
 - d) For Disk Format, select **Thick Provision Lazy Zeroed** and then click **Next**.
 - e) Map the OVF-configured network interface labels with the correct ESX-configured interface labels and then click **Next**.
 - f) Verify the configuration, select the Power on after deployment checkbox, and then click **Finish** to begin the deployment.
When the deployment is complete, you can see the unique name you assigned to the ExtraHop VM instance in the inventory tree for the ESX server to which it was deployed.
4. The Command appliance contains a preconfigured bridged virtual interface with the network label, VM Network. If your ESX has a different interface label, you must reconfigure the network adapter on the Command virtual appliance before starting the appliance.
 - a) Select the **Summary** tab.
 - b) Click **Edit Settings**, select **Network adapter 1**, select the correct network label from the **Network label** drop-down list, and then click **OK**.
5. Click the Command virtual appliance in the ESX Inventory and then select the **Console** tab.
6. Click the console window and then press ENTER to display the login prompt.
7. Log in with the `shell` user account and the password `default`.
8. Run the `show ipaddr` command to display the IP address of the ECA.

 **Note:** If you need to manually configure an IP address, see the [Configure a static IP address](#) section.

9. Press CTRL+ALT+DELETE to exit the window.

Configure a static IP address through the CLI

The ExtraHop system is delivered with DHCP enabled. If your network does not support DHCP, no IP address is acquired, and you must configure a static address manually.

 **Important:** For deployments that include a Discover appliance that is connected to a Command appliance, we strongly recommend [configuring a unique hostname](#). If the IP address on the sensor is changed, the Command appliance can re-establish connection easily to the sensor by hostname.

1. Access the CLI through an SSH connection, 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.
2. At the login prompt, type `shell` and then press ENTER.
3. At the password prompt, type `default`, and then press ENTER.
4. To configure the static IP address, run the following commands:
 - a) Enable privileged commands:

```
enable
```

- b) At the password prompt, type `default`, and then press ENTER.
- c) Enter configuration mode:

```
configure
```

- d) Enter the interface configuration mode:

```
interface
```

- e) 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
```

- f) Leave the interface configuration section:

```
exit
```

- g) Save the running config file:

```
running_config save
```

- h) Type `y` and then press ENTER.

Post-deployment actions

Open a web browser and type the IP address of the Command appliance in the address bar and then press **ENTER**. Accept the EULA and enter the product key to license the appliance.

Log in to the ExtraHop system with the `setup` user account and type `default` for the password.

- Review the [Discover and Command Post-deployment Checklist](#) and configure additional Command settings.
- [Connect a Command appliance to Discover appliances](#)
- [Connect the Discover and Command appliances to Explore appliances](#)
- [Connect the Discover and Command appliances to the Trace appliance](#)