Deploy the ExtraHop Discover Appliance in AWS

Published: 2018-10-27

The following procedure guides you through the deployment process of the ExtraHop Discover appliance AMI to monitor your Amazon Web Services (AWS) environment.

After you deploy the Discover appliance in AWS, configure remote packet capture (RPCAP) to forward traffic from remote devices to your virtual Discover appliance. For more information, see the Packet Forwarding with RPCAP ⧉ guide.

System requirements

Your environment must meet the following requirements to deploy a virtual Discover appliance in AWS:

- An AWS account
- Access to the Amazon Machine Image (AMI) of the ExtraHop Discover appliance
- A Discover appliance product key
- An AWS instance type that most closely matches the Discover appliance VM size, as follows:

Appliance	Supported Instance Types
EDA 1000v	m3.large, c3.xlarge, c4.xlarge
EDA 2000v	m3.xlarge, c3.2xlarge, c4.2xlarge
EDA 6100v	c3.8xlarge, c4.8xlarge

> **Note:** C3 instance types deployed in a VPC will take advantage of Enhanced Networking capabilities. M3 instance types do not support Enhanced Networking.

> **Important:** If you want to deploy more than one ExtraHop virtual appliance, create the new instance with the original deployment package or clone an existing instance that has never been started.

Create the ExtraHop instance in AWS

Before you begin
The Amazon Machine Images (AMIs) of ExtraHop appliances are not publicly shared. Before you can start the deployment procedure, you must send your AWS account ID to support@extrahop.com. Your account ID will be linked to the ExtraHop AMIs.

1. Sign in to AWS with your username and password.
2. Click **EC2**.
3. In the left navigation panel, under **Images**, click **AMIs**.
4. Above the table of AMIs, change the **Filter** from **Owned by Me** to **Private Images**.
5. In the filter box, type `ExtraHop` and then press ENTER.
6. Select the checkbox next to the appropriate ExtraHop Discover appliance AMI and click **Launch**.
7. Select a supported instance type for the product you are installing, based on the information in the following table.

Product	Supported Instance Types
EDA 1000v	m3.large, c3.xlarge, c4.xlarge

Product	Supported Instance Types
EDA 2000v	m3.xlarge, c3.2xlarge, c4.2xlarge
EDA 6100v	c3.8xlarge, c4.8xlarge

Note: C3 instance types deployed in a VPC will take advantage of Enhanced Networking capabilities. M3 instance types do not support Enhanced Networking.

8. Click **Next: Configure Instance Details**.
9. Click the **Network** drop-down list and select **Launch into EC2-Classic** or one of the VPCs for your organization.

Note: If you launch into EC2-Classic, you will not get support for Enhanced Networking.

10. From the Shutdown behavior drop-down list, select **Stop**.
11. Click the **Protect against accidental termination** checkbox.
12. Click the **IAM role** drop-down list and select an IAM role.
13. If you launched into a VPC and want to have more than one interface, scroll down to the **Network Interfaces** section and click **Add Device** to add additional interfaces to the instance.

Note: If you have more than one interface, make sure that each interface is on a different subnet.

14. On the **Configure Instance Details** page, click **Next: Add Storage**. The default storage capacities are listed below.

Product	Default Storage Capacity
EDA 1000v	61 GB
EDA 2000v	276 GB
EDA 6100v	1000 GB

15. Accept the default storage settings and click **Next: Tag Instance**.
16. In the **Value** field, enter a name for the instance.
17. Click **Next: Configure Security Group**.
18. On the **Configure Security Group** page, follow the procedure below with the table that follows to create a new security group or add ports to an existing group. If you already have a security group with the required ports for ExtraHop, you can skip this step.
    a) Select either **Create a new security group** or **Select an existing security group**. If you choose to edit an existing group, select the group you want to edit. If you choose to create a new group, enter a **Security group name** and **Description**.
    b) Click the **Type** drop-down list, and select a protocol type. Type the port number in the **Port Range** field.
    c) For each additional port needed, click the **Add Rule** button. Then click the **Type** drop-down list, select a protocol type, and type the port number in the **Port Range** field.

    The following ports need to be open for the ExtraHop AWS instance:

    • **TCP ports 22, 80, and 443 inbound to the ExtraHop system:** These ports are used to download the installer and administer the ExtraHop system. If you cannot open port 80, you can copy the installer to each instance manually. Refer to Installing the Software Tap on a Linux Instance or Installing the Software Tap on a Windows Instance.

    • **TCP/UDP ports inbound to the ExtraHop system:** Depending on the ExtraHop product, you must open a port (or a range of ports) for the software tap. See the following table for the default ports required for each product. You can use alterante port numbers, but you must add them to the security group. For the best performance, keep the port ranges for each product intact.

Product	TCP/UDP ports	Range
EDA 1000v	2003	1
EDA 2000v	2003-2006	4
EDA 6100v	2003-2010	8

19. Click **Review and Launch**.
20. Select **Make General Purpose (SSD)...** and click **Next**.

> **Note:** If you select **Make General Purpose (SSD)...**, then you will not see this step on subsequent instance launches.

21. Scroll down to review the AMI details, instance type, and security group information, and then click **Launch**.
22. In the pop-up window, click the first drop-down list and select **Proceed without a key pair**.
23. Click the **I acknowledge…** checkbox and then click **Launch Instance**.
24. Click **View Instances** to return to the AWS Management Console.

    From the AWS Management Console, you can view your instance on the **Initializing** screen. Under the table, on the **Description** tab, you can find the IP address or hostname for the ExtraHop appliance that is accessible from your environment.

Register an ExtraHop system in AWS

Complete the following steps to apply a product key supplied by ExtraHop Support in an AWS environment.

If you do not have a product key, contact your ExtraHop account team.

> **Tip:** To verify that your environment can resolve DNS entries for the ExtraHop licensing server, open a terminal application on your Windows, Linux, or Mac OS client and run the following command:

```
nslookup -type=NS d.extrahop.com
```

If the name resolution is successful, output similar to the following appears:

```
Non-authoritative answer:
d.extrahop.com nameserver = ns0.use.d.extrahop.com.
d.extrahop.com nameserver = ns0.usw.d.extrahop.com.
```

1. In your browser, type the IP address of the ExtraHop appliance (`https://<extrahop_management_ip>/admin`).
2. Review the license agreement, select **I Agree**, and click **Submit**.
3. On the log in screen, type `setup` for the user name and the instance ID for the password.

    You can find the Instance ID on the Description tab of an instance selected on the Initializing screen. Type the string of characters that follow i- (but not i- itself), and then click **Log In**.
4. Click **Please apply license in Admin UI**.
5. Click **Register**.
6. Enter the product key, and then click **Register**.
7. Click **Done**.