

Install the ECM in Amazon Web Services

This guide explains how to launch the ExtraHop Central Manager (ECM) AMI to monitor your Amazon Web Services (AWS) environment. You must have administrative access to launch a third-party AMI and an ExtraHop product key to complete these procedures.

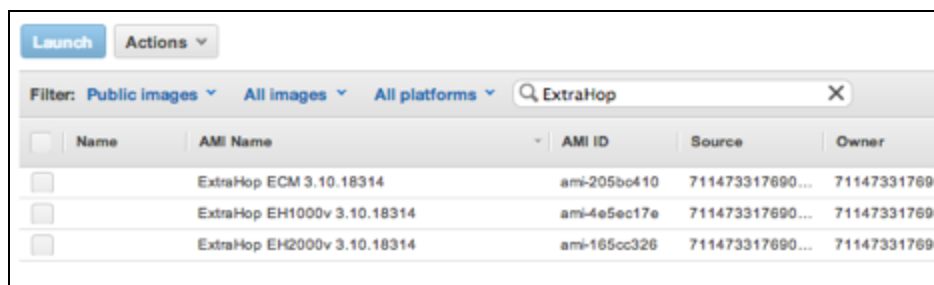
The following table is a guideline to achieve optimal performance with the ECM. These are minimum requirements that you may need to adjust depending on the size of your environment.

Scalability	ExtraHop Nodes	1-4	5-16	17-64	65 or more
Provisioning Requirements	CPU Cores	2	4	8	16
	RAM	4 GB	8 GB	16 GB	24 GB
	Disk Total	44 GB			
Networking Requirements	One 1 Gbps Ethernet network port accessible on port 443				

Creating the ECM Instance in AWS

To create the ECM instance in AWS, complete the following steps:

1. Go to aws.amazon.com, click **My Account/Console**, and select **AWS Management Console**.
2. Sign in with your username and password.
3. Click **EC2**.
4. In the left navigation panel, under Images, click **AMIs**.
5. Above the table of AMIs, change the **Filter** from **Owned by Me** to **Public Images**.
6. In the **Search AMIs...** field, enter `ExtraHop`.



7. Select the checkbox next to the ExtraHop ECM AMI and click **Launch**.

- In the left navigation panel, click **General Purpose** and select **m3.large**.

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Currently selected: m1.medium (2 ECUs, 1 vCPUs, 3.7 GiB memory, 1 x 410 GiB Storage Capacity)

All instance types

General purpose

General purpose instances provide a balance of compute, memory, and network resources, and are a good choice for many applications. They are recommended for small and medium databases, data processing tasks that require additional memory, caching fleets, and for running backend servers for SAP, Microsoft SharePoint, and other enterprise applications.

Size	ECUs	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance
m1.small	1	1	1.7	1 x 160	-	Low
m1.medium	2	1	3.7	1 x 410	-	Moderate
m1.large	4	2	7.5	2 x 420	Yes	Moderate
m1.xlarge	8	4	15	4 x 420	Yes	High

M1 instances are based on Intel Xeon processors.
For M3 instances, each vCPU is a hardware hyperthread from Intel Xeon E5-2670 processors.

Cancel Previous **Review and Launch** Next: Configure Instance Details

- Click **Next: Configure Instance Details**.
- Click the **Network** drop-down list and select **Launch into EC2-Classical** or a **VPC**. Ensure that you launch the ECM in the same environment as its ExtraHop appliance node(s).

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot Instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances

Purchasing option Request Spot Instances

Network Launch into EC2-Classical
vpc-362fae5d (10.0.0.0/16) | Sharepoint
vpc-bf858cdd (10.0.0.0/16)

Subnet

Cancel Previous **Review and Launch** Next: Add Storage

- Use the default shutdown behavior, **Stop**.
- Click the **Protect against accidental termination** checkbox.


Shutdown behavior

Enable termination protection Protect against accidental termination

- (Optional) Click the IAM role drop-down list and select an IAM role.
- (Optional) To use two interfaces for VPC, scroll down to the **Network Interfaces** section and click **Add Device** to associate another interface with your instance.

The default number of network interfaces is one. Ensure the two interfaces are on two different subnets.

15. Click **Next: Add Storage**.
16. Accept the defaults and click **Next: Tag Instance**.
17. In the **Value** field, enter a name for the instance.



Step 5: Tag Instance

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. [Learn more](#) about tagging your Amazon EC2 resources.

Key (127 characters maximum)	Value (255 characters maximum)
Name	ECM

Create Tag (Up to 10 tags maximum)

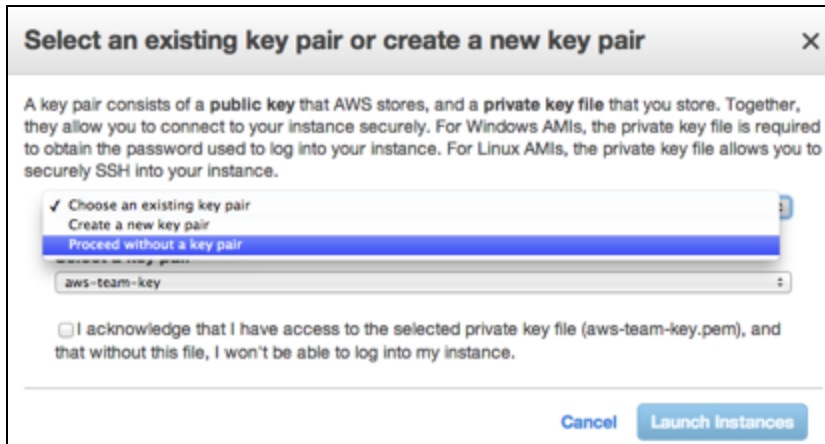
[Cancel](#) [Previous](#) [Review and Launch](#)

18. Click **Next: Configure Security Group**.
19. On the **Configure Security Group** page, create a security group for the ExtraHop instance if one has not been created already. If so, select the security group and go to the next step.
 - a. Select the **Create a new Security Group** radio button.
 - b. Enter a **Security group name** and **Description**.
 - c. Click the **Protocol** drop-down list and select a protocol. Type the port number in the **Port Range** text box and click the **Add Rule** button. Do this for each new port.

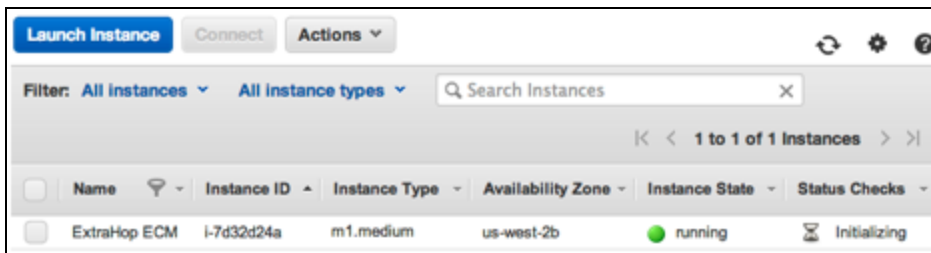
The following ports and IP addresses need to be opened for the ExtraHop AWS instance:

- **TCP ports 22, 80, and 443 inbound to the ECM:** 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.
- **IP addresses of the ExtraHop systems (nodes) connected to the ECM:** Once the ECM is launched, you must modify the security groups of the connected ExtraHop systems to allow the ECM traffic inbound to the ExtraHop systems.

20. Click **Review and Launch**.
21. Scroll down to review the AMI details, instance type, and security group information.
22. Click **Launch**.
23. In the pop-up window, click the first drop-down list and select **Proceed without a key pair**.



24. Click the **I acknowledge...** checkbox and then click **Launch Instance**.
25. Click **View Instances** to return to the AWS Management Console.
26. When you return to the AWS Management Console, view your instance on the **Initializing** screen.



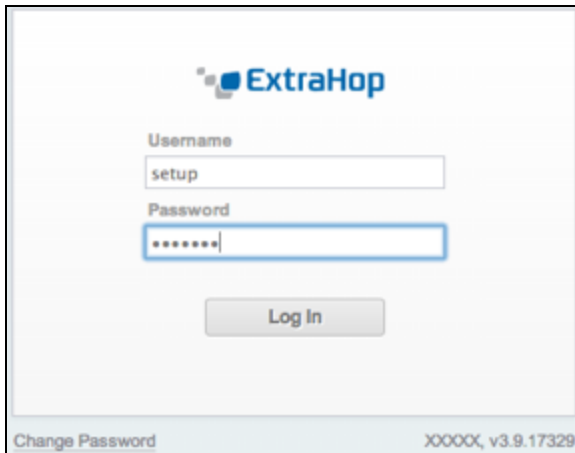
27. Under the table, on the **Description** tab, find an IP or hostname that is accessible from your environment.

Licensing the ExtraHop System

1. Once the instance has booted, browse to the Admin UI (https://<extrahop_management_ip>/admin). The following screen appears.



2. Review the license agreement, select **I Agree**, and click **Submit**.
3. In the **Login** screen, enter **setup** for the username and the instance ID for the password. The instance ID consists of the string of characters that follow **i-**.



ExtraHop

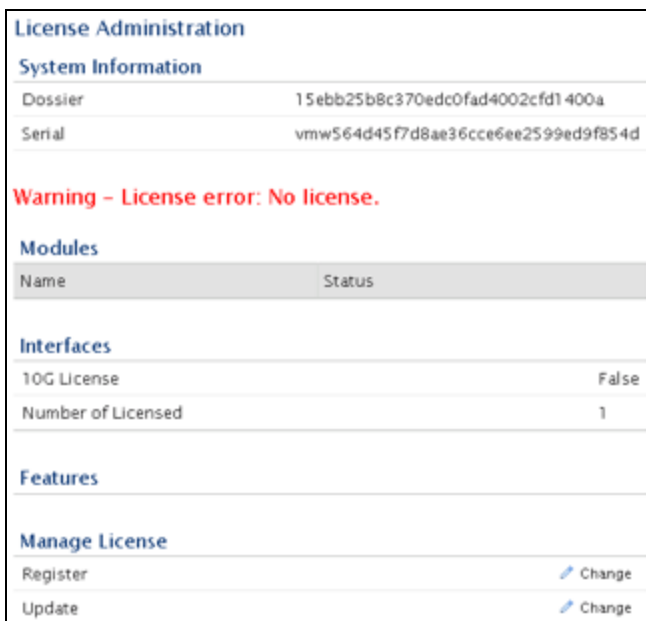
Username
setup

Password

Log In

Change Password XXXXX, v3.9.17329

4. Click **Please apply license in Admin UI**.
5. Click **Register** to enter the product key.



License Administration

System Information

Dossier	15ebb25b8c370edc0fad4002cfd1400a
Serial	vmw564d45f7d8ae36cce6ee2599ed9f854d

Warning - License error: No license.

Modules

Name	Status

Interfaces

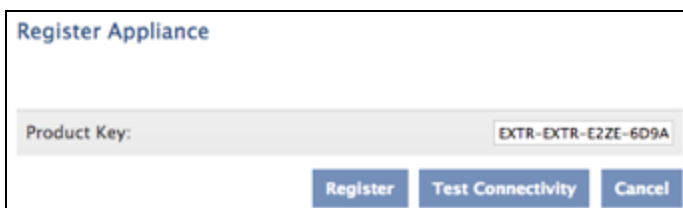
10G License	False
Number of Licensed	1

Features

Manage License

Register	Change
Update	Change

6. Enter the product key and then click **Register**. The ECM now contacts the license server and validates the product key. After the product key is validated, the license is downloaded.



Register Appliance

Product Key: EXTR-EXTR-E2ZE-6D9A

Register Test Connectivity Cancel

7. Click **Done**.



The following example shows a properly licensed ECM on the **License Administration** page:

License Administration	
System Information	
Dossier	937e7a26c601607a0907313e237d1f1e
Serial	vmw564df5be1f0d7e806d79932c39241275
Product Key	EXTR-EXTR-CG69-3WWN
Platform	ECM
Modules	
Name	Status
CIFS	Enabled
DB2	Enabled
DIAMETER	Enabled
FIX	Enabled
HTTP-AMF	Enabled
IBMMQ	Enabled
ICA	Enabled
Informix	Enabled
ISCSI	Enabled
LDAP	Enabled
Memcache	Enabled

8. To add ExtraHop appliances to the ECM, go to the **Cluster Settings** section and click **Nodes**. For more information about adding a node, refer to the *ExtraHop Admin UI Help*.