

Deploy the ExtraHop Discover Appliance on Google Cloud Platform

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The following procedures explain how to deploy a virtual ExtraHop Discover appliance in a Google Cloud environment. You must have experience deploying virtual machines in Google Cloud within your virtual network infrastructure.

To ensure that the deployment is successful, make sure you have access and ability to create the required resources. You might need to work with other experts in your organization to ensure that the necessary resources are available.

System requirements

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

- You must have a Google Cloud Platform (GCP) account
- You must have the ExtraHop deployment file, which is available on the [ExtraHop Customer Portal](#).
- You must have an ExtraHop product key.
- You must have packet mirroring enabled in GCP to forward network traffic to the ExtraHop system. Packet mirroring must be configured to send traffic to nic1 (not nic0) of the ExtraHop instance. See <https://cloud.google.com/vpc/docs/using-packet-mirroring>.

 **Important:** If your deployment includes a Command appliance or Reveal(x) 360, the following workflow ensures the best performance for initial device synchronization. First, connect all sensors to the Command appliance or Reveal(x) 360, then configure network traffic forwarding to the sensors.

- You must have firewall rules configured to allow DNS, HTTP, HTTPS, and SSH traffic for ExtraHop administration. See <https://cloud.google.com/vpc/docs/using-firewalls>.
- You must provision a GCP instance type that most closely matches the virtual Discover appliance size, as follows:

Appliance	Recommended Instance Type
Reveal(x) EDA 1100v	n1-standard-4 (4 vCPU, 15 GB memory)

Upload the ExtraHop deployment file

1. Sign in to your Google Cloud Platform account.
2. From the navigation menu, click **Cloud Storage** > **Browser**.
3. Click the name of the storage bucket where you want to upload the ExtraHop deployment file. If you do not have a preconfigured storage bucket, create one now.
4. Click **Upload files**.
5. Browse to the `extrahop-eda-gcp-<version>.tar.gz` file you previously downloaded and click **Open**. Wait for the file to upload, and then continue to the next procedure.

Create the image

1. From the navigation menu, click **Compute Engine** > **Images**.
2. Click **Create Image** and complete the following steps:
 - a) In the Name field, type a name to identify the ExtraHop appliance.


- b) From the Source drop-down list, select **Cloud Storage file**.
 - c) In the Cloud Storage file section, click **Browse**, locate the `extrahop-eda-gcp-<version>.tar.gz` file in your storage bucket and then click **Select**.
 - d) Configure any additional fields that are required for your environment.
3. Click **Create**.

Create the datastore disk

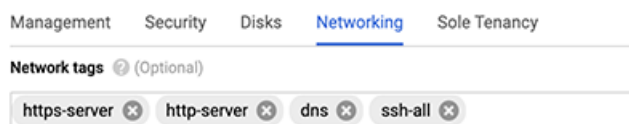
1. From the navigation menu, click **Compute Engine > Disks**.
2. Click **Create Disk** and complete the following steps:
 - a) In the Name field, type a name to identify the ExtraHop disk.
 - b) From the Type drop-down menu, select **Standard persistent disk**.
 - c) In the Source type section, click **Image**.
 - d) From the Source image drop-down list, select the image you created in the previous procedure.
 - e) In the Size field, type 61.
 - f) Configure any additional fields that are required for your environment.
3. Click **Create**.


Create the VM instance


1. From the navigation menu, click **Compute Engine > VM instances**.
2. Click **Create Instance** and complete the following steps:
 - a) In the Name field, type a name to identify the ExtraHop instance.
 - b) From the Region drop-down list, select your geographic region.
 - c) From the Zone drop-down list, select a location within your geographic zone.
 - d) In the Machine configuration section, select **General Purpose** for the machine family, **N1** for the series, and **n1-standard-4 (4 vCPU, 15 GB memory)** for the machine type.
 - e) In the Boot disk section, click **Change**.
 - f) Click **Existing disks**.
 - g) From the Disk drop-down list, select the disk you created in the previous procedure.
 - h) Click **Select**.
3. Click **Management, security, disks, networking, sole tenancy**.
4. Click **Networking**.
5. In the Network tags field, type the following tag names:

 **Important:** Network tags are required to apply firewall rules to the ExtraHop instance. If you do not have existing firewall rules that allow this traffic, you must create the rules. See <https://cloud.google.com/vpc/docs/using-firewalls>.

- `https-server`
- `http-server`
- `dns`
- `ssh-all`



6. In the Network interfaces section, click the edit icon  to edit the management interface.
 - a) From the **Network** drop-down list, select your management network.

- b) From the **Subnetwork** drop-down list, select your management network subnet.
 - c) Configure any additional fields that are required for your environment.
 - d) Click **Done**.
7. Click **Add network interface** to configure the data capture interface.
-  **Important:** The management interface and data capture interface must be in different Virtual Private Cloud (VPC) networks.
- a) From the **Network** drop-down list, select your network that will mirror traffic to the ExtraHop system.
 - b) From the **Subnetwork** drop-down list, select your network subnet.
 - c) From the **External IP** drop-down list, select **None**.
 - d) Configure any additional fields that are required for your environment.
 - e) Click **Done**.
8. Click **Create**.

Register the appliance

Open a web browser and navigate to the ExtraHop system through the configured management IP address. Accept the license agreement and then log in. The default login name is `setup` and the password is the VM instance ID. Type the product key to license the system.

Configure L3 device discovery

You must configure the ExtraHop system to discover and track local and remote devices by their IP address (L3 Discovery). To learn how device discovery works in the ExtraHop system, see [Device discovery](#).

1. Log in to the Administration settings on the ExtraHop system through `https://<extrahop-hostname-or-IP-address>/admin`.
2. In the System Configuration section, click **Capture**.
3. Click **Device Discovery**.
4. In the Local Device Discovery section, select the **Enable local device discovery** checkbox to enable L3 Discovery.
5. In the Remote Device Discovery section, type the IP address in the IP address ranges field. You can specify one IP address or a CIDR notation, such as `192.168.0.0/24` for an IPv4 network or `2001:db8::/32` for an IPv6 network.
6. Click **Save**.

Next steps

- After the appliance is licensed and you have verified that traffic is detected, complete the recommended procedures in the [post-deployment checklist](#).