# Deploy the ExtraHop ECA VM console in Azure

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The following procedures explain how to deploy an ExtraHop virtual console in a Microsoft Azure environment. You must have experience administering in an Azure environment to complete these procedures.

# Before you begin

- You must have experience deploying virtual machines in Azure within your virtual network infrastructure. To ensure that the deployment is successful, make sure you have access to, or the 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.
- You must have a Linux, Mac, or Windows client with the latest version of Azure CLI I installed.
- You must have the ExtraHop virtual hard disk (VHD) file, available on the ExtraHop Customer Portal . Extract the VHD file from the downloaded .zip archive file.
- You must have an ExtraHop product key.
- Azure creates a temporary disk that appears on the Disks page after the main datastore disk is created and the system is rebooted. This disk is not intended for your sensor or packetstore. You can ignore this disk.

# **System requirements**

The table below shows the environmental parameters that you need to configure, or might have already configured in your Azure environment to successfully deploy your ExtraHop virtual console.

Parameter	Description	
Azure account	Provides access to your Azure subscriptions.	
Resource Group	A container that holds related resources for the ExtraHop system.	
Location	The geographic region where the Azure resources are located to sustain your ExtraHop system.	
Storage account	The Azure storage account contains all of your Azure Storage data objects, including blobs and disks.	
Blob storage container	The storage container where the ExtraHop virtual console image is stored as a blob.	
Managed disk	The disk required for the ExtraHop system data storage.	
Network security group	The network security group contains security rules that allow or deny inbound network traffic to, or outbound network traffic from the ExtraHop system.	
Azure VM instance size	An Azure instance size optimized for the number of connected ExtraHop sensors, recordstores, and packetstores.	

Parameter	Description
	The performance of the virtual ExtraHop console 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 Virtual ExtraHop Console Performance Guidelines .
	<ul> <li>Small Deployments: Standard_D4_v3 (4 vCPU and 16 GiB RAM)</li> </ul>
	<ul> <li>Medium Deployments: Standard_D8_v3 (8 vCPU and 32 GiB RAM)</li> </ul>
	<ul> <li>Large Deployments: Standard_D16_v3 (16 vCPU and 64 GiB RAM)</li> </ul>
	• Extra Large Deployments : Standard_D32_v3 (32 vCPU and 128 GiB RAM
Public or private IP address	The IP address that enables access to the ExtraHop system.

# Deploy the console

# Before you begin

The procedures below assume that you do not have the required resource group, storage account, storage container, and network security group configured. If you already have these parameters configured, you can proceed to step 6 after you log in to your Azure account.

1. Open a terminal application on your client and log in to your Azure account.

- 2. Open https://aka.ms/devicelogin in a web browser and enter the code to authenticate, and then return to the command-line interface.
- 3. Create a resource group.

For example, create a new resource group in the West US region.

4. Create a storage account.

For example:

5. View the storage account key. The value for key1 is required for step 6.

## For example:

```
az storage account keys list --resource-group exampleRG --account-name
```

Output similar to the following appears:

```
"permissions": "Full",
"value":
 "CORuU8mTcxLxq0bbszhZ4RKTB93CqLpjZdAhCrNJugAorAyvJjhGmBSedjYPmnzXPikSRigd
5T5/YGYBoIzxNq=="
   "permissions": "Full",
"value": "DOlda4+6U3Cf5TUAng8/GKotfX1HHJuc3yljAlU+aktRAf4/
KwVQUuAUnhdrw2yg5Pba5FpZn6oZYvROncnT8Q=="
```

6. Set default Azure storage account environment variables. You can have multiple storage accounts in your Azure subscription. To select one account to apply to all subsequent storage commands, set these environment variables. If you do not set environment variables you will always have to specify -account-name and --account-key in the commands in the rest of this procedure.

#### PowerShell

Where <key1> is the storage account key value that appears in step 5.

## For example:

\$Env:AZURE\_STORAGE\_KEY=CORuU8mTcxLxq0bbszhZ4RKTB93CqLpjZdAhCrNJugAor



Set environment variables in the Windows command interpreter (Cmd.exe) with the Tip: • following syntax:

Set environment variables in the Linux command-line interface with the following syntax:

```
export <variable name>=<string>
```

7. Create a storage container.

#### For example:

8. Upload the ExtraHop VHD file to the blob storage.

# For example:

```
--name extrahop.vhd --file /Users/admin/Downloads/extrahop-eca-azure-7.2.0.5000.vhd --validate-content
```

9. Retrieve the blob URI. You will need the URI when you create the managed disk in the next step.

# For example:

Output similar to the following example appears:

10. Create a managed disk, sourcing the ExtraHop VHD file.

Where sku specifies the type of disk and desired replication pattern. Managed disks support only Standard\_LRS and Premium\_LRS. Premium\_LRS has a maximum disk size of 1 TB and Standard\_LRS has a maximum disk size of 4TB.

size-qb parameter.

#### For example:

```
name exampleDisk --sku Standard_LRS --source https:/
```

11. Create the VM and attach the managed disk. This command creates the ECA VM with a default network security group and private IP address.

# For example:

```
--attach-os-disk exampleDisk --size Standard_D2_v3
```

12. Log in to the Azure portal through <a href="https://portal.azure.com">https://portal.azure.com</a> and configure the networking rules for the appliance. The network security group must have the following rules configured:

**Table 1: Inbound Port Rules** 

Name	Port	Protocol
HTTPS	443	TCP
SSH	22	TCP

# **Table 2: Outbound Port Rules**

Name	Port	Protocol
DNS	53	UDP
HTTPS	443	TCP
SSH	22	ТСР

# Next steps

Open a web browser and log in to the ExtraHop system through the configured private IP address. The default login name is setup and the password is the value of the vmId field for the VM. You can find the vmID by locating the VM on https://resources.azure.com/.

Complete the following recommended procedures:

- Register your ExtraHop system 🛂
- Configure the system time **Z**
- Configure email settings for notifications <a>I</a></a>
- Connect the EXA 5200 to the ExtraHop system <
- Connect sensors and console to the packetstore