Getting started

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Overview

AWS is a collection of remote computing services offered by Amazon.com, also called web services, that make up a cloud-computing platform. These services operate from 11 geographical regions across the world.

In general, the user should become familiar with the following AWS services when deploying Cisco Cyber Vision Center and Cisco Cyber Vision Global Center:

- Amazon Elastic Compute Cloud (EC2)

  A web service that enables you to rent virtual computers to launch and manage your own applications and services, such as a Cisco Cyber Vision Center, in Amazon's data centers.

- Amazon Virtual Private Cloud (VPC)

  A web service that enables you to configure an isolated private network that exists within the Amazon public cloud. You run your EC2 instances within a VPC.

- Amazon Simple Storage Service (S3)

  A web service that provides you with a data storage infrastructure.

You create an account on AWS, set up the VPC and EC2 components (using either the AWS Wizards or manual configuration), and choose an Amazon Machine Image (AMI) instance. The AMI is a template that contains the software configuration needed to launch your instance.

Note The AMI images are not available for download outside of the AWS environment.

Prerequisites

- An Amazon account.
- An SSH client (required to access the Cisco Cyber Vision Center console).
- Communication path: public/elastic IPs for access to the Cisco Cyber Vision resources.
- An Elastic IP (the default public IP change after a reboot. This can cause an issue for sensors).
- Minimum configuration to run and test the product are 8 vCPU and 16GB RAM.
- SSD disks are mandatory.

Supported features

- Center
- Global Center

Note For details about Center resources, refer to the Cisco Cyber Vision VM Installation Guide available in cisco.com.

Limitations

The following features or hardware are not supported:

- Dual interface Centers.
- Sensors using the sensor management extension.

Configure the AWS environment

To deploy Cisco Cyber Vision on AWS you need to configure an Amazon VPC with your deployment-specific requirements and settings. In most situations, a setup wizard can guide you through your setup. AWS provides online documentation where you can find useful information about the services ranging from introduction to advanced features.

Refer to https://aws.amazon.com/documentation/gettingstarted/ for more information.

Additional information:

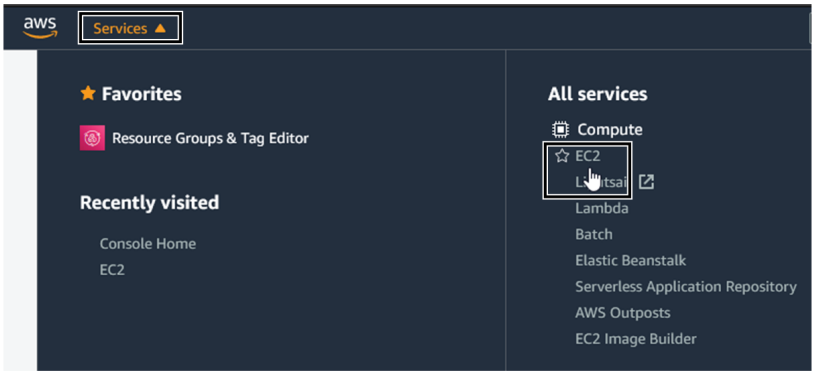
VM sizing

Minimum – up to 500 components: • CPU: Intel Xeon, 8 cores • RAM: 16GB minimum • Storage: 500GB SSD
Recommended: For 10,000 components w/o Center DPI: • CPU: Intel Xeon, 10 cores • RAM: 32GB minimum • Storage: 1TB SSD minimum, RAID-10 For more than 10,000 components or Center DPI: • CPU: Intel Xeon, 16 cores • RAM: 64GB minimum • Storage: 1TB SSD minimum, RAID-10

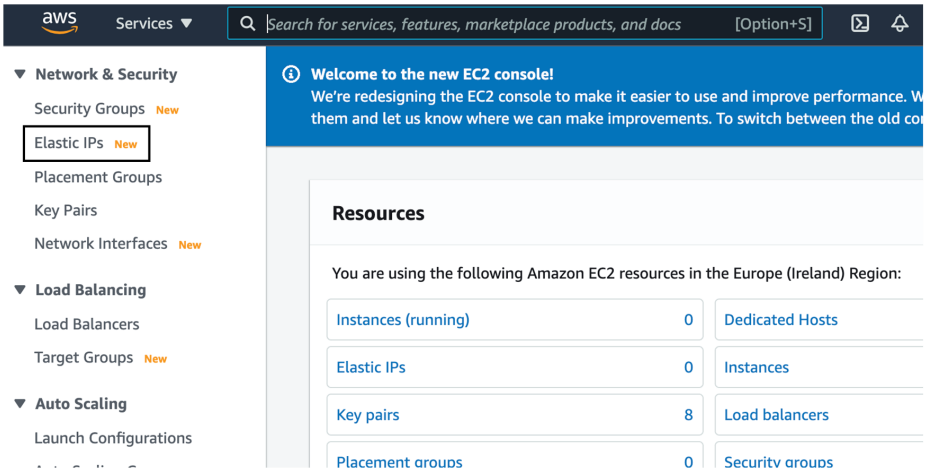
Create Elastic IPs

When an instance is created, a public IP address is associated with the instance. That public IP address changes automatically when you stop and start the instance. To resolve this issue, assign a persistent public IP address to the instance using Elastic IP addressing. Elastic IPs are reserved public IPs that are used for remote access to the Cisco Cyber Vision as well as other instances.

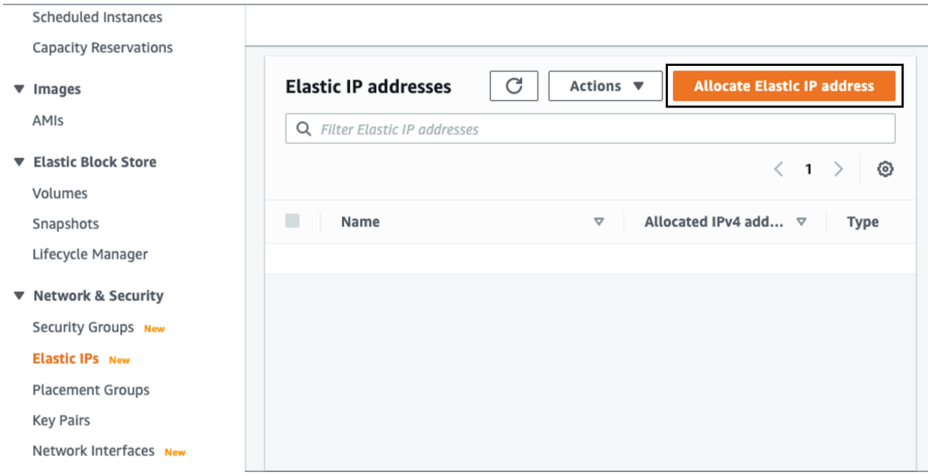
1. Access you Amazon account.
2. Navigate to Services > EC2.



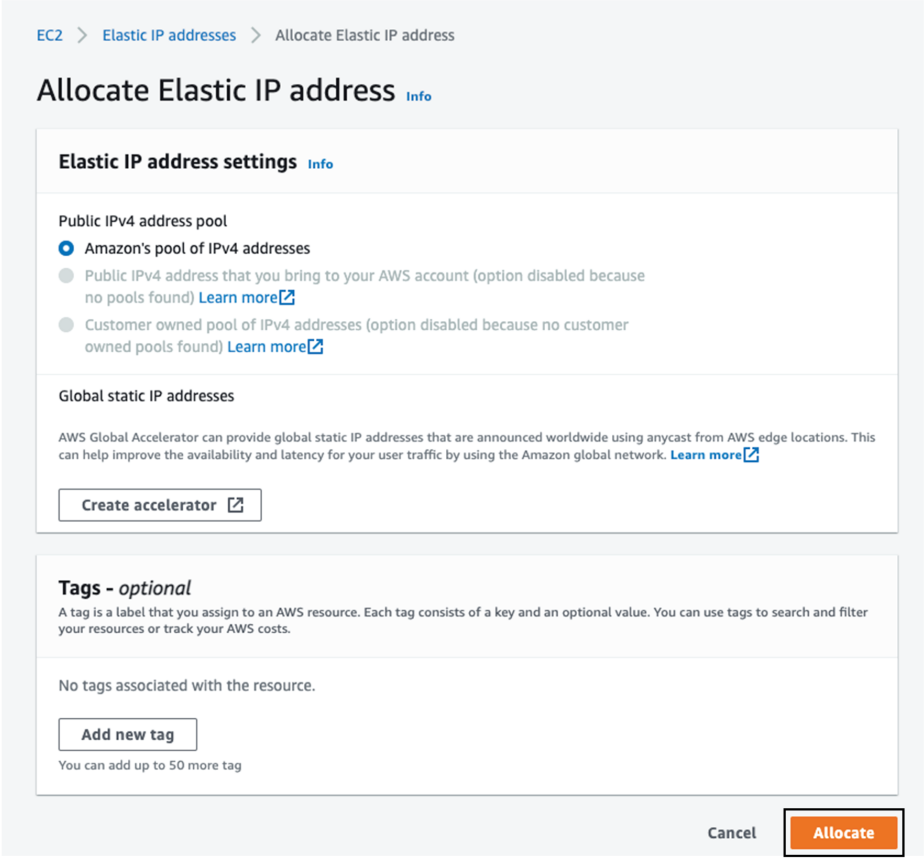
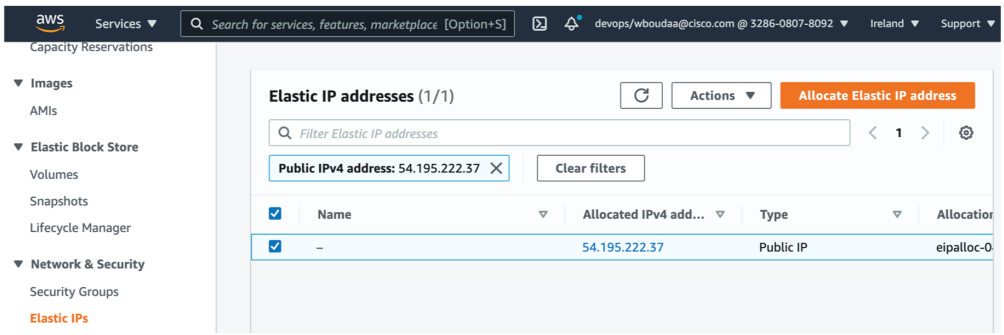
3. Under Network & Security, click Elastic IPs.



4. Click Allocate Elastic IP address.



5. Click Allocate to create the Elastic IP.



6. Check the new Elastic IP out.