



## 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.



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

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## 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



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**Note** For details about Center resources, refer to the Cisco Cyber Vision VM Installation Guide available in [cisco.com](https://cisco.com).

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## 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

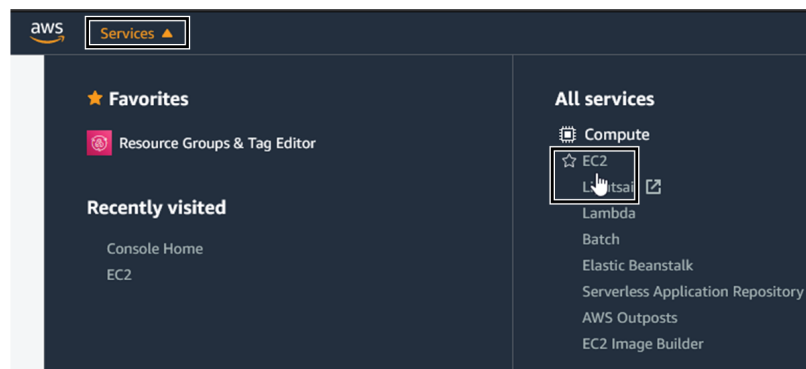
For more than 10,000 components or Center DPI:

- 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.

aws Services Search for services, features, marketplace products, and docs [Option+S]

- Network & Security
  - Security Groups **New**
  - Elastic IPs **New****
  - Placement Groups
  - Key Pairs
  - Network Interfaces **New**
- Load Balancing
  - Load Balancers
  - Target Groups **New**
- Auto Scaling
  - Launch Configurations

**Welcome to the new EC2 console!**  
We're redesigning the EC2 console to make it easier to use and improve performance. We'd like to hear from you about how you use them and let us know where we can make improvements. To switch between the old console and the new one, click on the link in the top right corner.

**Resources**

You are using the following Amazon EC2 resources in the Europe (Ireland) Region:

|                     |   |                 |
|---------------------|---|-----------------|
| Instances (running) | 0 | Dedicated Hosts |
| Elastic IPs         | 0 | Instances       |
| Key pairs           | 8 | Load balancers  |
| Placement groups    | 0 | Security groups |

4. Click Allocate Elastic IP address.

Scheduled Instances  
Capacity Reservations

- Images
  - AMIs
- Elastic Block Store
  - Volumes
  - Snapshots
  - Lifecycle Manager
- Network & Security
  - Security Groups **New**
  - Elastic IPs **New****
  - Placement Groups
  - Key Pairs
  - Network Interfaces **New**

**Elastic IP addresses** [Refresh] [Actions] **Allocate Elastic IP address**

Filter Elastic IP addresses

< 1 > [Settings]

| Name | Allocated IPv4 add... | Type |
|------|-----------------------|------|
|------|-----------------------|------|

5. Click Allocate to create the Elastic IP.

EC2 > Elastic IP addresses > Allocate Elastic IP address

### Allocate Elastic IP address [Info](#)

#### Elastic IP address settings [Info](#)

**Public IPv4 address pool**

- Amazon's pool of IPv4 addresses
- Public IPv4 address that you bring to your AWS account (option disabled because no pools found) [Learn more](#)
- Customer owned pool of IPv4 addresses (option disabled because no customer owned pools found) [Learn more](#)

**Global static IP addresses**

AWS Global Accelerator can provide global static IP addresses that are announced worldwide using anycast from AWS edge locations. This can help improve the availability and latency for your user traffic by using the Amazon global network. [Learn more](#)

[Create accelerator](#)

#### Tags - optional

A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

No tags associated with the resource.

[Add new tag](#)

You can add up to 50 more tag

[Cancel](#) [Allocate](#)

6. Check the new Elastic IP out.

The screenshot shows the AWS console interface for Elastic IP addresses. The top navigation bar includes the AWS logo, 'Services', a search bar, and user information. The left sidebar shows a navigation menu with categories like Capacity Reservations, Images, Elastic Block Store, and Network & Security, with 'Elastic IPs' highlighted. The main content area displays 'Elastic IP addresses (1/1)' with a search filter and a table of allocated addresses.

| <input checked="" type="checkbox"/> | Name | Allocated IPv4 add... | Type      | Allocation |
|-------------------------------------|------|-----------------------|-----------|------------|
| <input checked="" type="checkbox"/> | -    | 54.195.222.37         | Public IP | eipalloc-0 |

