

EC2:

EC2 stands for Amazon Elastic Compute Cloud, which is a web service that allows users to create and run virtual machines (instances) in the Amazon Web Services (AWS) public cloud. EC2 is designed to make it easier for developers to use cloud computing at web scale.

Its just like that we create a virtual server for our cloud

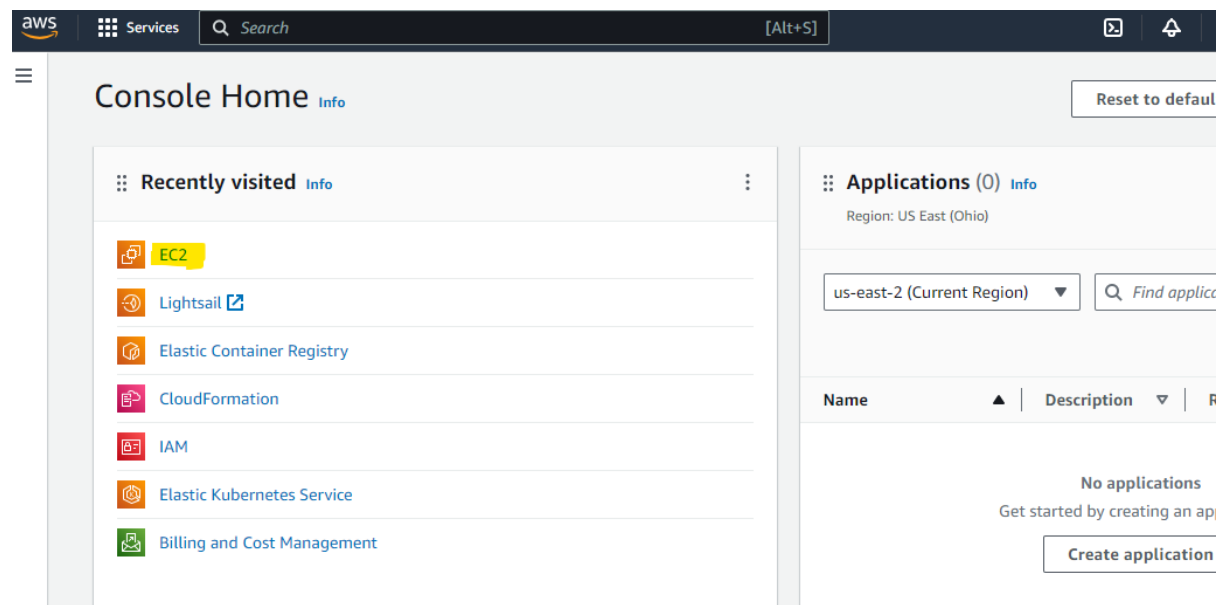
How to Create an EC2 Instance on AWS

First, you need to create aws account and login to aws :

After login successfully :

Open EC2 Dashboard

- Description: After logging in, search for "EC2" in the search bar and click on the EC2 service.



Launch an Instance

- Description: Click on the "Launch Instance" button to start the process.

The screenshot shows the AWS Management Console interface for launching an EC2 instance. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, and a list of Instance-related options. The main content area is titled 'Launch instance' and includes a 'Launch instance' button (highlighted with a red box), a 'Migrate a server' button, and a note about the default region (US East (Ohio)). Below this is the 'Instance alarms' section with a 'View in CloudWatch' button and status indicators (0 in alarm, 0 OK, 1 insufficient data). To the right is the 'Service health' section showing the AWS Health Dashboard and a status message: 'This service is operating normally.' Below that is a table of 'Zones' with columns for Zone name and Zone ID. The right sidebar shows account information and settings.

Zone name	Zone ID
us-east-2a	use2-az1
us-east-2b	use2-az2
us-east-2c	use2-az3

Give the name of your ec2 instance :

The screenshot shows the 'Launch an instance' page in the AWS Management Console. The breadcrumb navigation indicates the path: EC2 > Instances > Launch an instance. The main heading is 'Launch an instance' with an 'Info' link. Below the heading is a descriptive paragraph about Amazon EC2. The 'Name and tags' section is highlighted, showing a text input field for the instance name, which contains 'my-server' (highlighted with a red box). There is also a link to 'Add additional tags'.

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Choose machine that you want

▼ Application and OS Images (Amazon Machine Image) [Info](#)

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Recents

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ubuntu

Windows

Microsoft

Red Hat

Red Hat

SUSE Li

SUS

Q

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type

Free tier eligible

ami-085f9c64a9b75eed5 (64-bit (x86)) / ami-0b8e245d9e93c05fa (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Choose an Instance Type

- Description: Select the instance type based on your workload requirements. For general purposes, "t2.micro" is often selected as it falls under the AWS Free Tier.

▼ Instance type [Info](#) | [Get advice](#)

Instance type

t2.micro

Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Linux base pricing: 0.0116 USD per Hour

On-Demand SUSE base pricing: 0.0116 USD per Hour

On-Demand Windows base pricing: 0.0162 USD per Hour

On-Demand RHEL base pricing: 0.026 USD per Hour

☐ All generations

[Compare instance types](#)

Additional costs apply for AMIs with pre-installed software

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Add Tags


- Description: Add key-value pairs to help manage and identify your instance. This step is optional.

▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

Select ▼

 [Create new key pair](#)

Configure Security Group

- Description: Set up a security group to control inbound and outbound traffic. Ensure that SSH access is enabled for your IP.

[Additional charges apply when creating or using this instance.](#)

Firewall (security groups) [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group

☐ Select existing security group

We'll create a new security group called 'launch-wizard-6' with the following rules:

☒ **Allow SSH traffic from**
Helps you connect to your instance

Anywhere
0.0.0.0/0

▼

☒ **Allow HTTPS traffic from the internet**
To set up an endpoint, for example when creating a web server

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Add Storage

- Description: Specify the storage size and type for your instance. The default is usually sufficient, but you can adjust as needed.

▼ **Configure storage** [Info](#)

Advanced

x 8

GiB

gp3

Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance

Click refresh to view backup information

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

↻

0 x File systems

Edit

After completing all the step lauch Instance :

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Edit

► **Advanced details** [Info](#)

Software Image (AMI)
Canonical, Ubuntu, 24.04, amd64...[read more](#)
ami-085f9c64a9b75eed5

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Cancel

Launch Instance

[Review commands](#)

Launch Status

- Description: Once you click "Launch," the instance creation process begins. Wait for the instance to start running.

EC2 > Instances > Launch an instance

✓ **Success**

Successfully initiated launch of instance **i-07fb8f86f9b8be849**

