


Create an Instance in AWS:

Step 1: Login to your **AWS console**.


Step 2: Go to **All services**.

All services


Services by category

**Compute**


- [EC2](#)
- [Lightsail](#)
- [Lambda](#)
- [Batch](#)
- [Elastic Beanstalk](#)
- [Serverless Application Repository](#)
- [AWS Outposts](#)
- [EC2 Image Builder](#)
- [AWS App Runner](#)
- [AWS SimSpace Weaver](#)
- [Parallel Computing Service](#)

**Containers**


- [Elastic Container Service](#)
- [Elastic Kubernetes Service](#)

**Quantum Technologies**

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**Management & Governance**



- [AWS Organizations](#)
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- [AWS Auto Scaling](#)
- [CloudFormation](#)
- [AWS Config](#)
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- [Systems Manager](#)
- [Trusted Advisor](#)
- [Control Tower](#)
- [AWS Well-Architected Tool](#)

**Security, Identity, & Compliance**

- [Resource Access Manager](#)
- [Cognito](#)
- [Secrets Manager](#)
- [GuardDuty](#)
- [Amazon Inspector](#)
- [Amazon Macie](#)
- [IAM Identity Center](#)
- [Certificate Manager](#)
- [Key Management Service](#)
- [CloudHSM](#)
- [Directory Service](#)
- [AWS Firewall Manager](#)
- [AWS Artifact](#)
- [Detective](#)

Step 3: Click on **EC2** in Compute section. (Elastic Compute Cloud)

Resources


[EC2 Global View](#)




You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:

Instances (running)0	Auto Scaling Groups0	Capacity Reservations0
Dedicated Hosts0	Elastic IPs0	Instances0
Key pairs3	Load balancers0	Placement groups0
Security groups4	Snapshots0	Volumes0

Launch instance


To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

[Launch instance](#)


[Migrate a server](#)


Note: Your instances will launch in the US East (N.


Service health

[AWS Health Dashboard](#)


Region

US East (N. Virginia)

Status

 This service is operating normally.

You can change the location of your Cloud Environment based on your needs. Just change it from the **top right corner**.

Step 4: Click on **Launch Instance**, if you have any idle instance running, terminate it immediately or stop it.

Step 5: Name your Server. example: *my-new-instance* ,etc.

Launch an instance [Info](#)

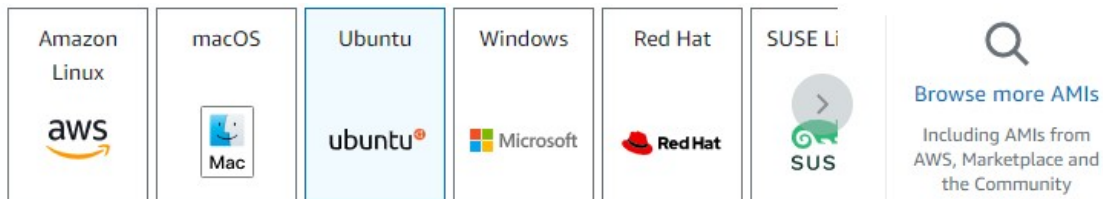
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags [Info](#)

Name

[Add additional tags](#)

Step 6: Choose your **AMI (Amazon Machine Image)**, here we'll continue with **Ubuntu**.



Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type
ami-0866a3c8686eaeaba (64-bit (x86)) / ami-0325498274077fac5 (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible ▼

Description

Ubuntu Server 24.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Step 7: Choose Instance type, if you're a beginner and just want to learn how instance works, go with either **t2 or t3 family**, they are affordable as compared to others.

We will choose **t2.micro**, the specifications will be visible here.

▼ Instance type Info | Get advice

Instance type

t2.micro
Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Windows base pricing: 0.0162 USD per Hour
On-Demand Ubuntu Pro base pricing: 0.0134 USD per Hour
On-Demand SUSE base pricing: 0.0116 USD per Hour
On-Demand RHEL base pricing: 0.026 USD per Hour
On-Demand Linux base pricing: 0.0116 USD per Hour

Free tier eligible ▼

☒ All generations
[Compare instance types](#)

Additional costs apply for AMIs with pre-installed software

Step 8: Now, you need to create a New Key Pair, click on Create **New Key Pair**.

Warning: A key pair is the only possible way to access your AWS instance by any third-party, **Do not share it with anyone**.

▼ **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*

[Create new key pair](#)

After Clicking on Create new key pair, name your key pair, eg- *my-new-key-pair*.

Create key pair ×

Key pair name
Key pairs allow you to connect to your instance securely.

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type


☒ **RSA**
RSA encrypted private and public key pair

☐ **ED25519**
ED25519 encrypted private and public key pair

Private key file format

☒ **.pem**
For use with OpenSSH

☐ **.ppk**
For use with PuTTY

 When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

Cancel **Create key pair**

Step 9: Now, in **Network settings** you must choose what configurations you want, we

want to create an SSH Remote Server, so we have to allow the SSH Traffic, the other two are totally up to you to configure.

We'll create a new security group called 'launch-wizard-4' 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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Step 10: All the configurations are done now, click on **Launch Instance** in the bottom Right.

Make sure to terminate the instance after you have configured it.

Technologies Used:

- Amazon Web Services (AWS) EC2
- SSH for Linux access
- RDP for Windows access
- AWS Management Console for managing EC2 instances