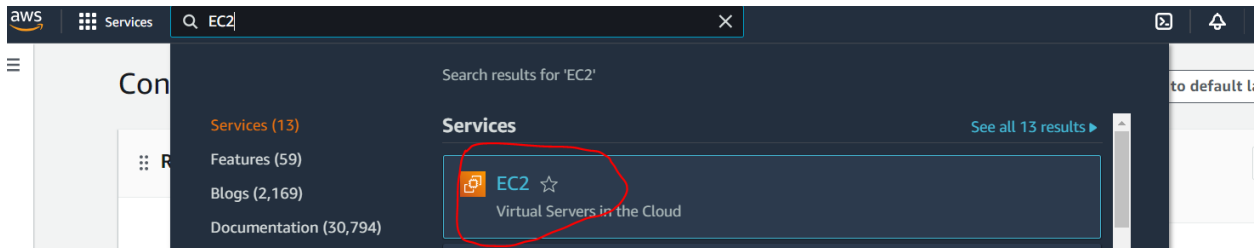


STEPS OF CREATING EC2

Step 1: Launching an EC2 Instance

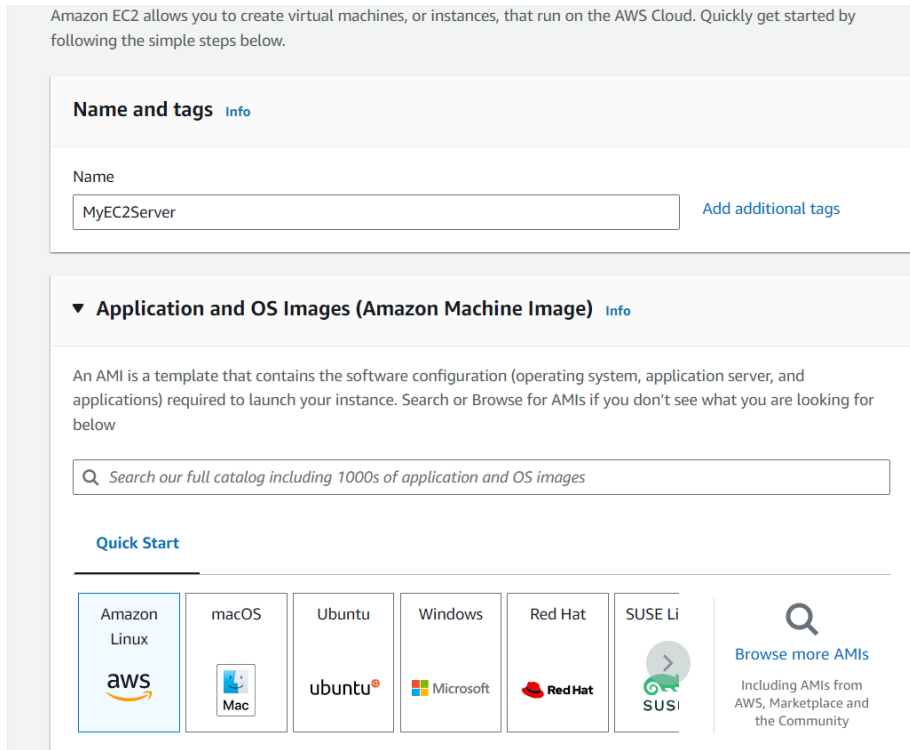
1.1 Log in to AWS Management Console

- Go to [AWS Console](#) and log in to your account.
- Navigate to **EC2 Dashboard** from the services menu.



1.2 Launch a New EC2 Instance

- Click on the **Launch Instance** button.
- Choose an **Amazon Machine Image (AMI)**. For simplicity, select **Amazon Linux 2 AMI**.



1.3 Choose an Instance Type

- Select **t2.micro** as it is eligible for the free tier.
- Click **Next: Configure Instance Details**.

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

Instance type

t2.micro Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true
On-Demand Windows base pricing: 0.0162 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

[Compare instance types](#)

☐ All generations

[Additional costs apply for AMIs with pre-installed software](#)

1.4 Select an existing key pair or create a new one to access your instance via SSH.

- .pem for Linux and Mac users
- .ppk for Windows users

▼ **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*

ec2access

↻ [Create new key pair](#)

1.7 Configure Security Group

- Create a new security group. Add the following inbound rules:
 - **HTTP** – Port 80 (for web traffic)
 - **SSH** – Port 22 (for connecting via SSH)

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' with the following rules:

- ☒ Allow SSH traffic from Anywhere
0.0.0.0/0
Helps you connect to your instance
- ☒ Allow HTTPS traffic from the internet
To set up an endpoint, for example when creating a web server
- ☒ Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server

- Click **Review and Launch**.

Step 2: Access the EC2 Instance

2.1 Connect to Your EC2 Instance

- Open a terminal (or use PuTTY on Windows).
- Connect using the SSH command provided by AWS, which looks like:

```
ssh -i "your-key-pair.pem" ec2-user@<Public-IP-of-Instance>
```

- Replace "your-key-pair.pem" with your key file path and <Public-IP-of-Instance> with your instance's public IP address.

Step 3: Install Web Server (Apache)

3.1 Update Package Manager

Run the following command to update the package manager on the EC2 instance:

sudo yum update -y :to update the package manager on the EC2 instance:

sudo yum install httpd -y :to Install Apache Web Server

sudo systemctl start httpd: Start Apache Service

sudo systemctl enable httpd

sudo iptables -I INPUT -p tcp --dport 80 -j ACCEPT: Allow HTTP Traffic

Check if the Apache server is working by visiting your instance's public IP address. You should see the default Apache test page.

Step 4: Deploy Website Code from GitHub

sudo yum install git -y :install git

cd /var/www/html :access web server root directory

*sudo rm -rf ** :remove default HTML files

sudo git clone https://github.com/<your-username>/<your-repository>.git : Clone your GitHub repository

sudo chmod -R 755 /var/www/html : Modify File Permissions (Optional)