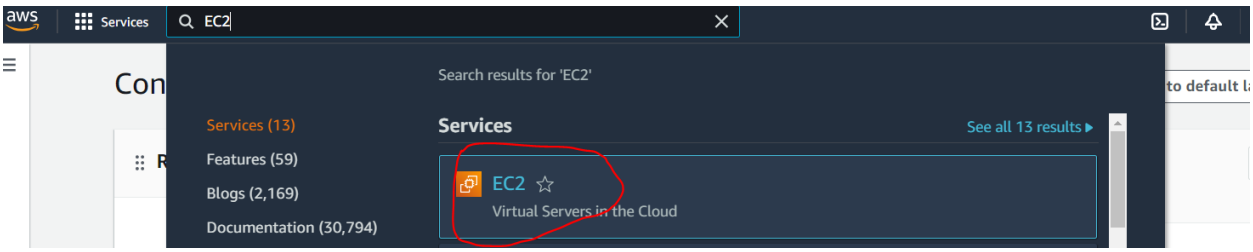
STEPS OF CREATING EC2

Step 1: Launching an EC2 Instance

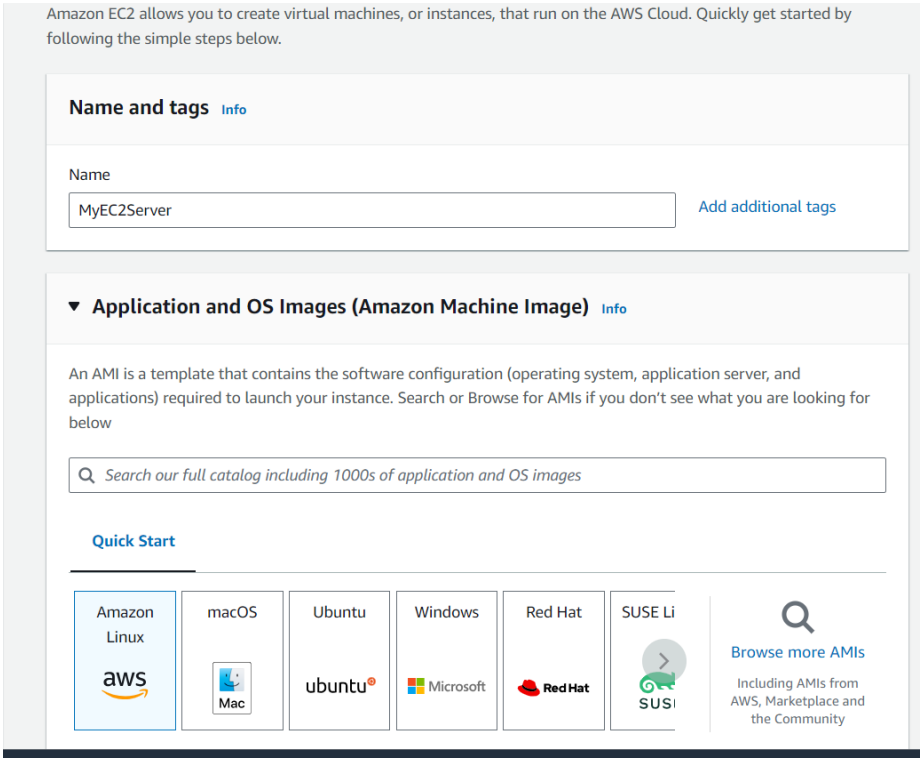
1.1 Log in to AWS Management Console

- Go to AWS Console and log in to your account.
- Navigate to **EC2 Dashboard** from the services menu.



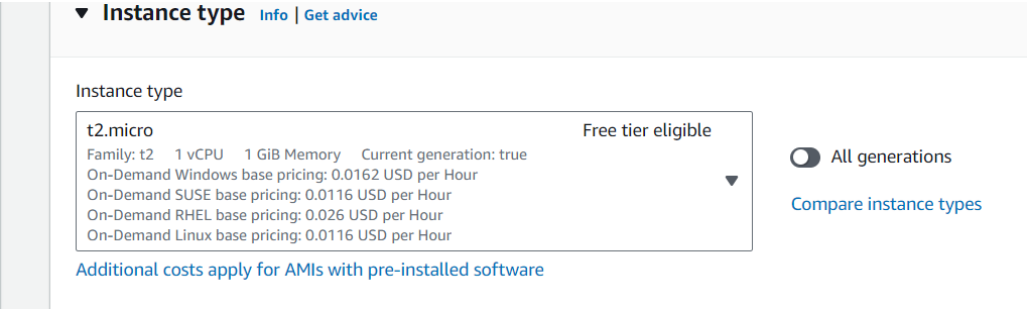
1.2 Launch a New EC2 Instance

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



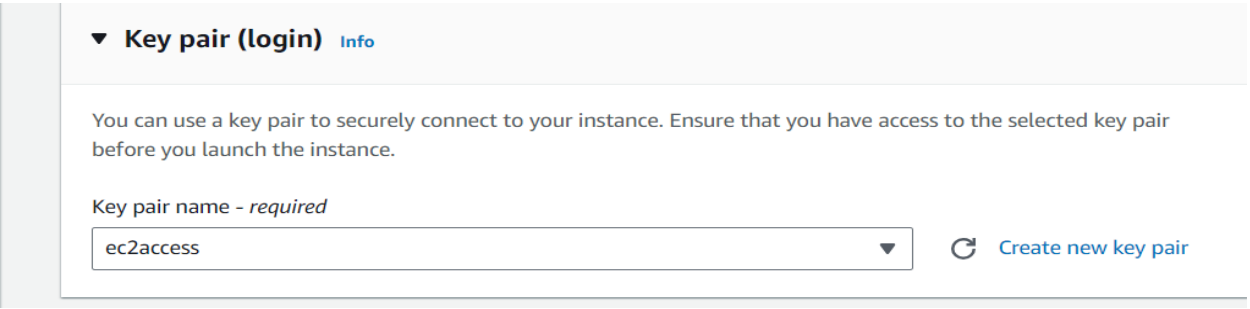
1.3 Choose an Instance Type

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



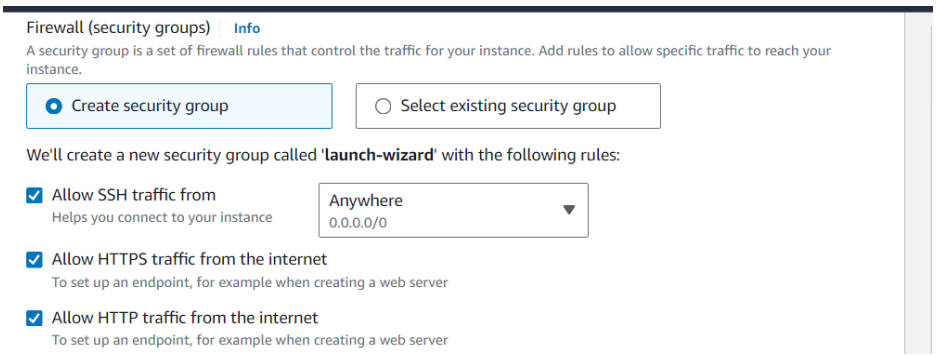
1.4 **Select an existing key pair or create a new one to access your instance via SSH**.

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



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)



- 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)