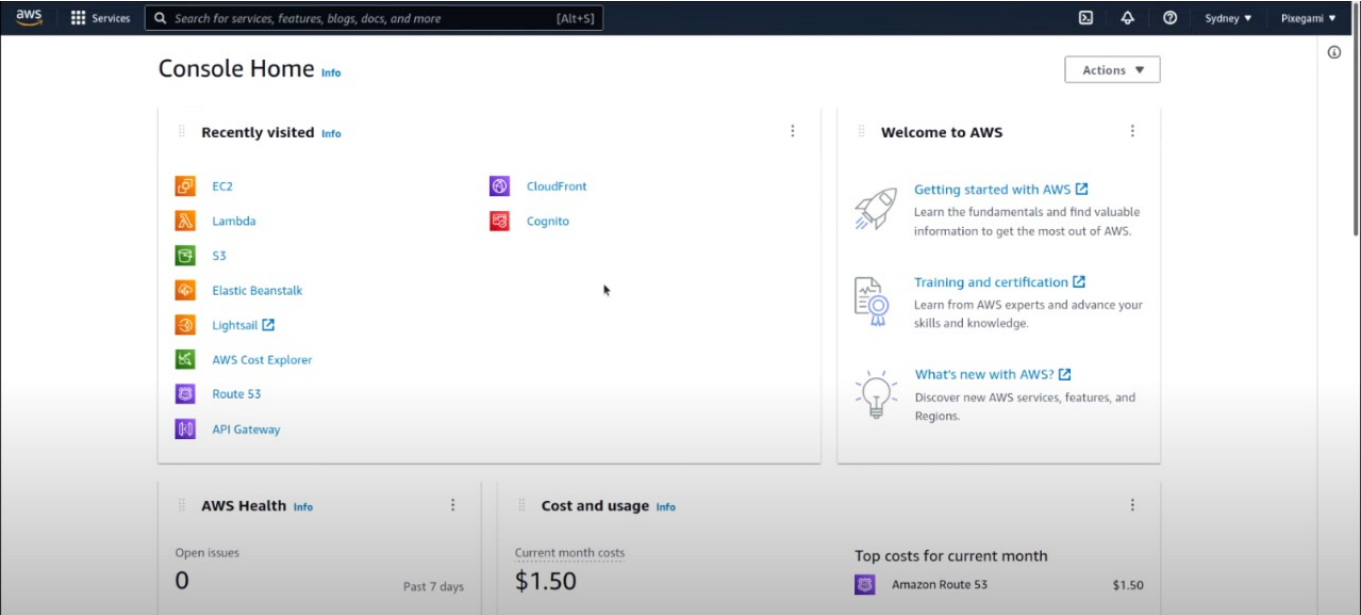# Procedure to host Fast API on AWS.
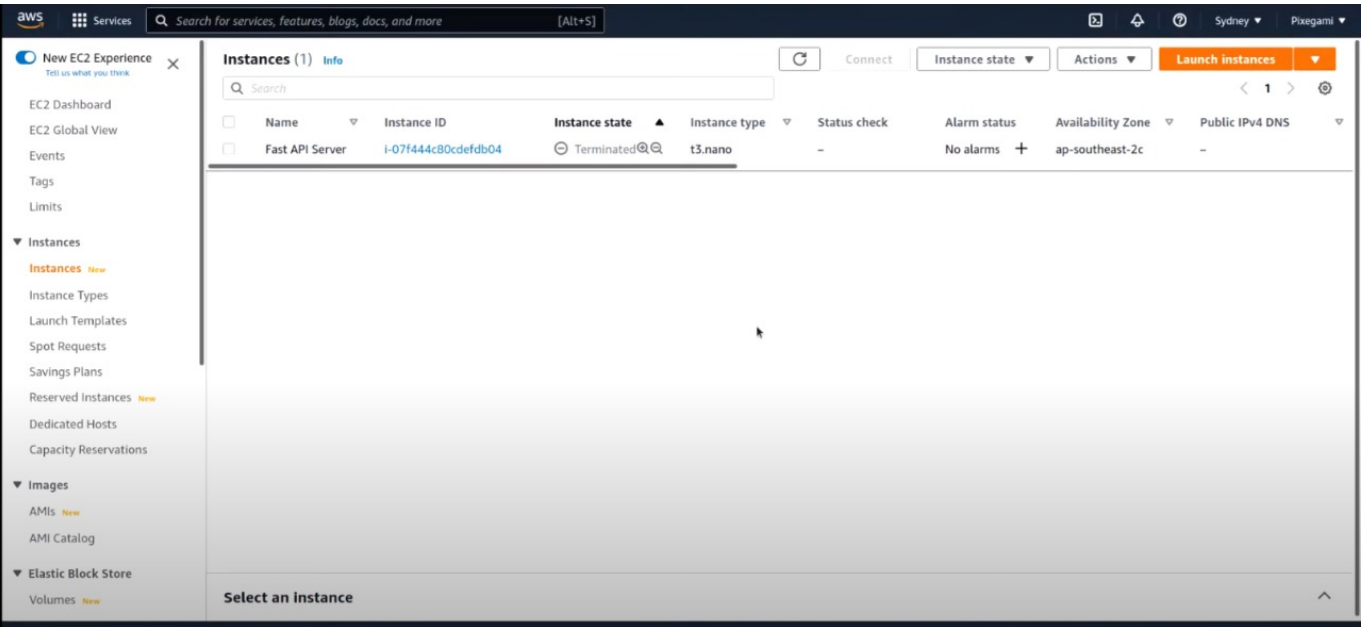
## Step 1

login to your AWS account and go to Console.



## Step 2
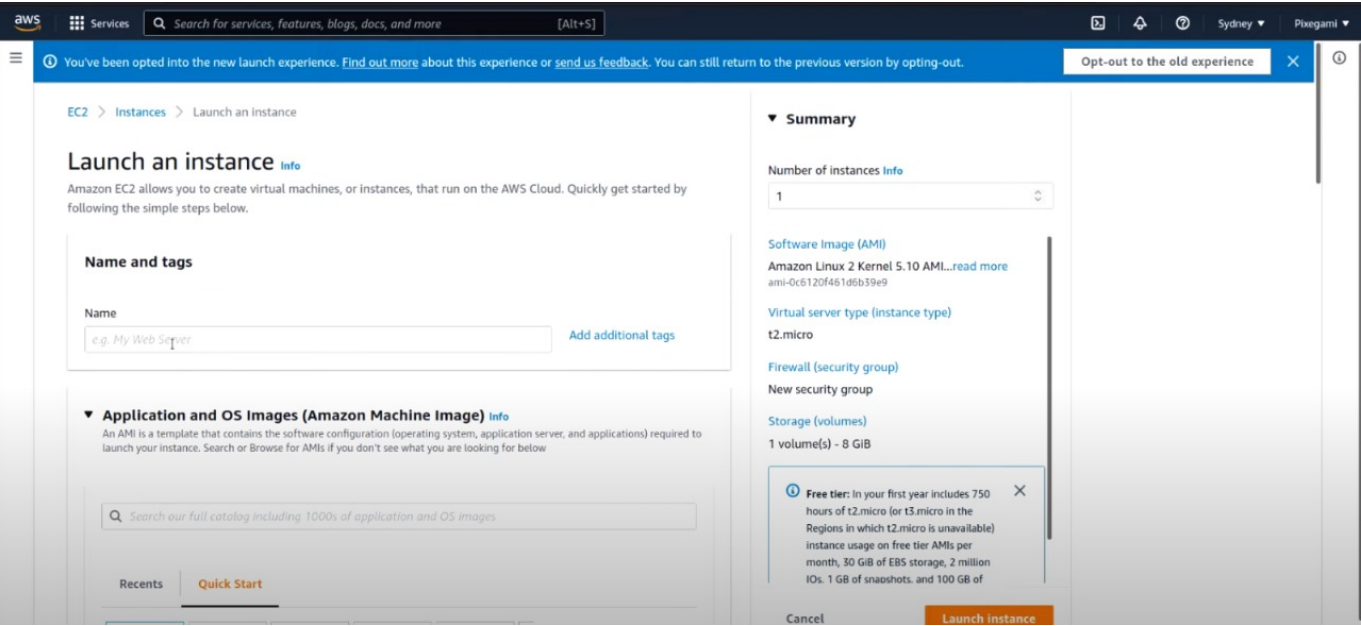
Go to ec2 dashboabrd and click on launch instance.
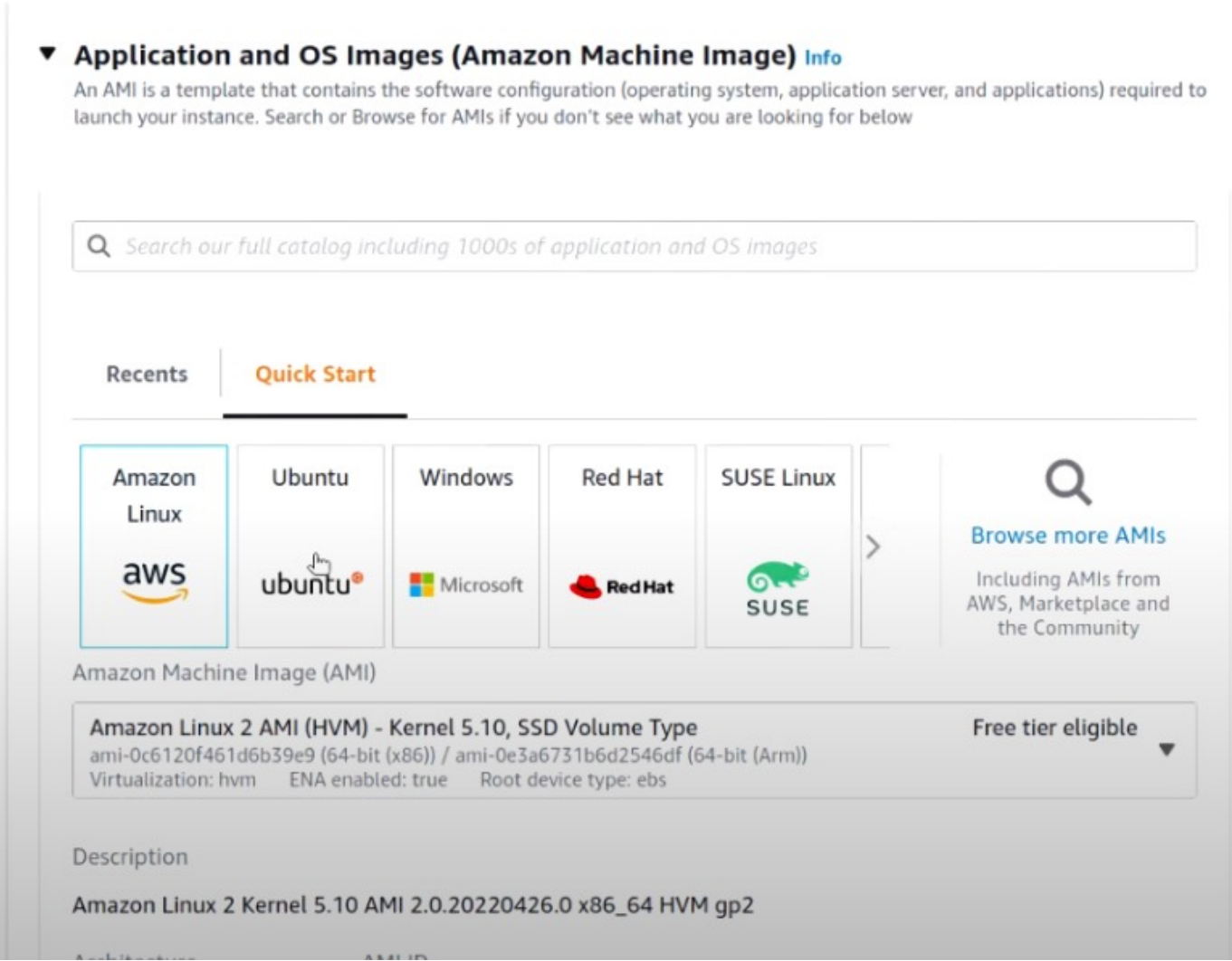


## Step 3

Step 3.1

Create an instance



## Step 3.2

Choose an application and Os images



## Step 3.3

Choose an instance type



Step 3.4

Create a Key pair



Key appears in the form of .pem file. Download it and keep it safe. It will be used to connect to the instance.

# Step 4

Network Setting



Launch the instance.

Click on the instance ID to see the details of the instance.



# Step 5

Connect to the instance.



Step 5.1

To connect to the instance via SSH client

**Connect to instance**  Info
Connect to your instance i-0097cd757ec595204 (Fast API Server) using any of these options

| EC2 Instance Connect | Session Manager | **SSH client** | EC2 Serial Console |

Instance ID
⊡ i-0097cd757ec595204 (Fast API Server)

1. Open an SSH client.
2. Locate your private key file. The key used to launch this instance is fastapi_key.pem
3. Run this command, if necessary, to ensure your key is not publicly viewable.
   ⊡ chmod 400 fastapi_key.pem
4. Connect to your instance using its Public DNS:
   ⊡ ec2-13-239-43-144.ap-southeast-2.compute.amazonaws.com

Example:
   ⊡ ssh -i "fastapi_key.pem" ubuntu@ec2-13-239-43-144.ap-southeast-2.compute.amazonaws.com

> ⓘ **Note:** In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel

## Step 5.2

Go to the directory where the .pem file is stored and run the following command to change the mod 400

```
chmod 400 file_name.pem
```

## Step 5.3

Copy the SSH command and run it in the terminal.

Example:
   ⊡ ssh -i "fastapi_key.pem" ubuntu@ec2-13-239-43-144.ap-southeast-2.compute.amazonaws.com

## Step 5.4

After succesful connection, Update the system.

Download depenedencies and install them.

```
Sudo apt install -y python3-pip nginx
```

Note: Nginx is used to host the Fast API on the server. It is a web server that can be used to host the Fast API.
Load balancer can also be used to host the Fast API.

## Step 5.5

Create a Nginx configuration file.

```
sudo vim /etc/nginx/sites-enabled/fastapi_ngnix
```

## Step 5.6

Create a server block in the configuration file.

```
server {
    listen 80;
    server_name _(public ipv4 of the instance)_;
    location / {
        proxy_pass http://127.0.0.1:8000;
```



## Step 5.7

Restart the Nginx server.

```
sudo service nginx restart
```

## Step 5.8

Git clone your Repository to the instance machine.



## Step 5.9

Set up your project. install all dependencies and run the python server with the following command.

```
python3 -m uvicorn file_name:app --host
```

# References

https://education.github.com/