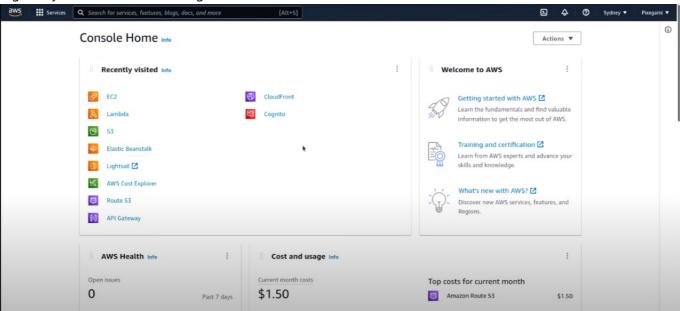
Procedure to host Fast API on AWS.

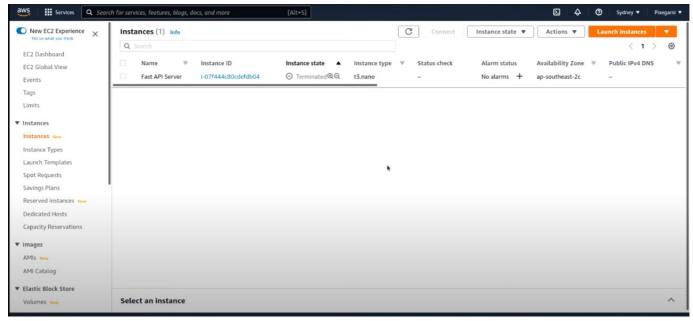
Step 1

login to your AWS account and go to Console.



Step 2

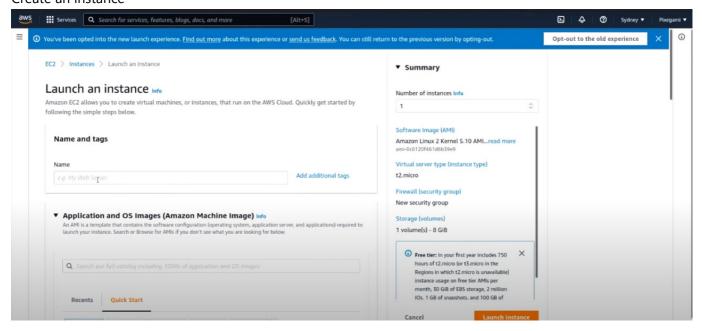
Go to ec2 dashboabrd and click on launch instance.



Step 3

Step 3.1

Create an instance



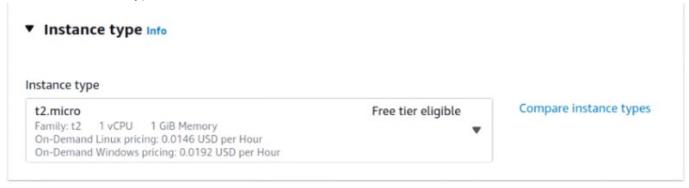
Step 3.2

Choose an application and Os images

▼ Application and OS Images (Amazon Machine Image) Info 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 Q Search our full catalog including 1000s of application and OS images Recents **Quick Start** Amazon Ubuntu Windows Red Hat SUSE Linux Linux Browse more AMIs aws ubuntu[®] Including AMIs from Microsoft O--Red Hat AWS, Marketplace and SUSE the Community Amazon Machine Image (AMI) Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type Free tier eligible ami-0c6120f461d6b39e9 (64-bit (x86)) / ami-0e3a6731b6d2546df (64-bit (Arm)) Virtualization: hvm ENA enabled: true Root device type: ebs Description Amazon Linux 2 Kernel 5.10 AMI 2.0.20220426.0 x86_64 HVM gp2

Step 3.3

Choose an instance type



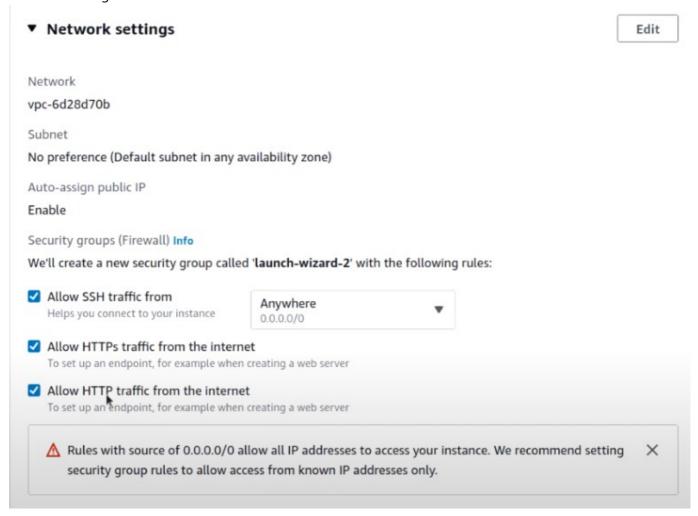
Step 3.4

Create a Key pair Create key pair X Key pairs allow you to connect to your instance securely. Enter the name of the key pair below. 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 [2] Key pair name fastapi The name can include upto 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 (Not supported for Windows instances) Private key file format pem For use with OpenSSH O .ppk For use with PuTTY Create key pair Cancel Key

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

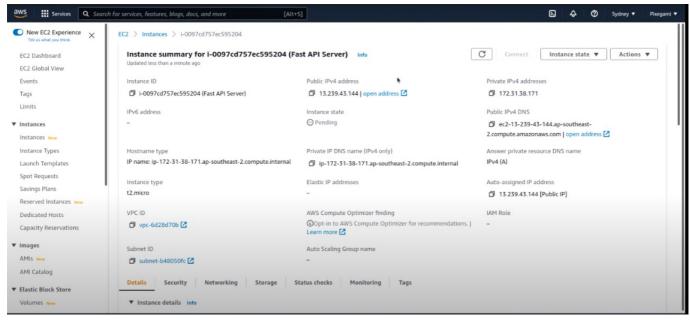
Step 4

Network Setting



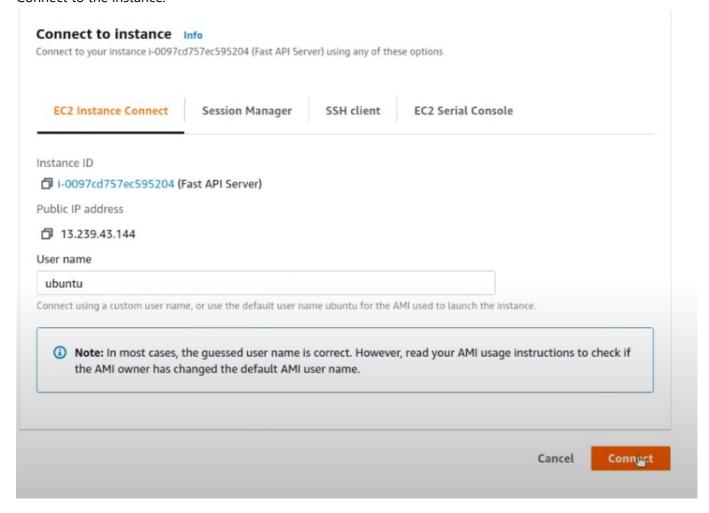
Launch the instance.

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



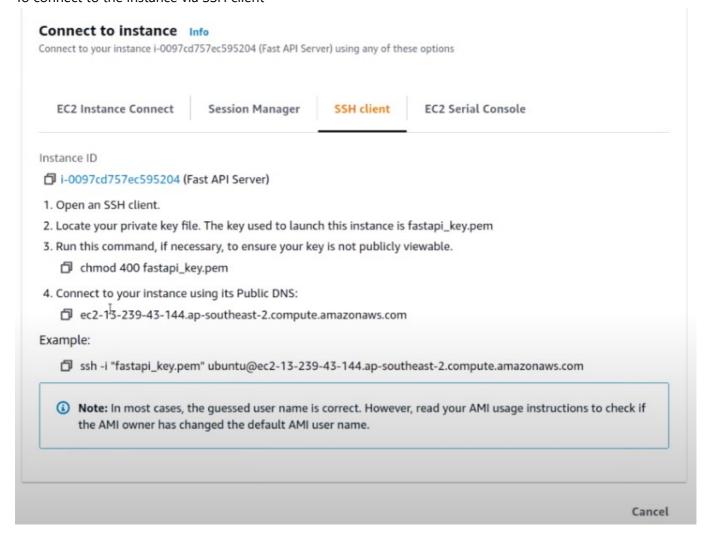
Step 5

Connect to the instance.



Step 5.1

To connect to the instance via SSH client



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 dependencies 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;
}
```

```
listen 80;
    server_name 13.239.43.144;
    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.

```
ubuntu@ip-172-31-38-171:~$ git clone https://github.com/pixegami/fastapi-tutorial.git
```

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/