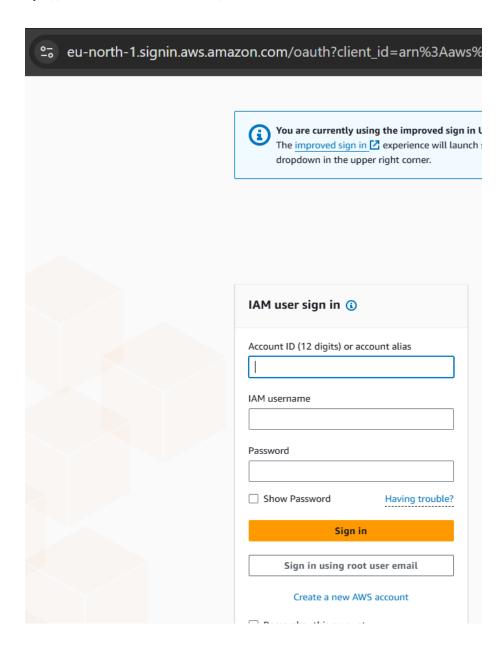
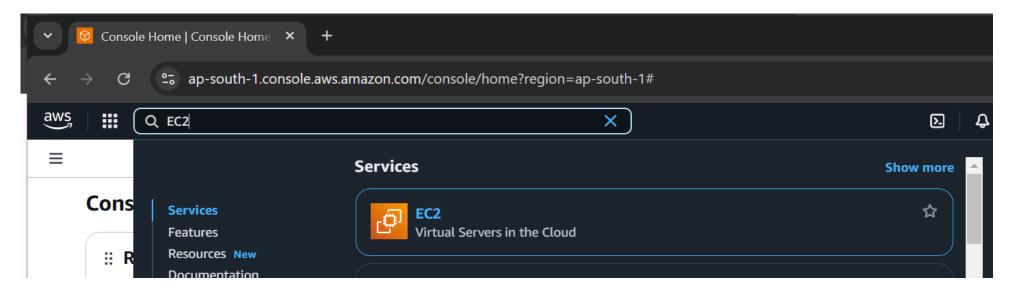
*) Go to https://console.aws.amazon.com/

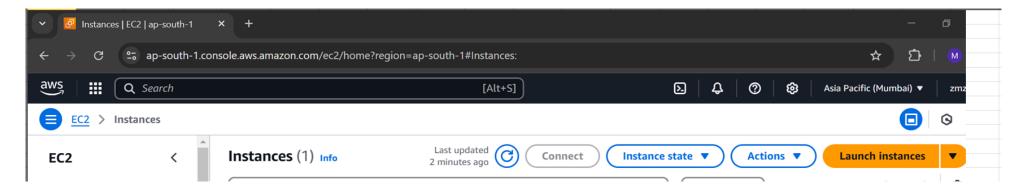




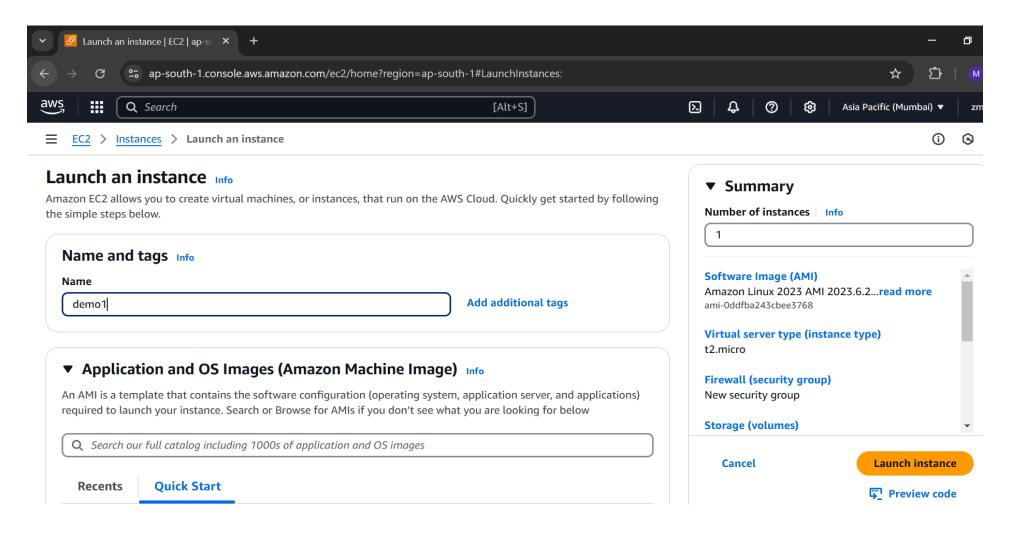
*) Login with your credentials



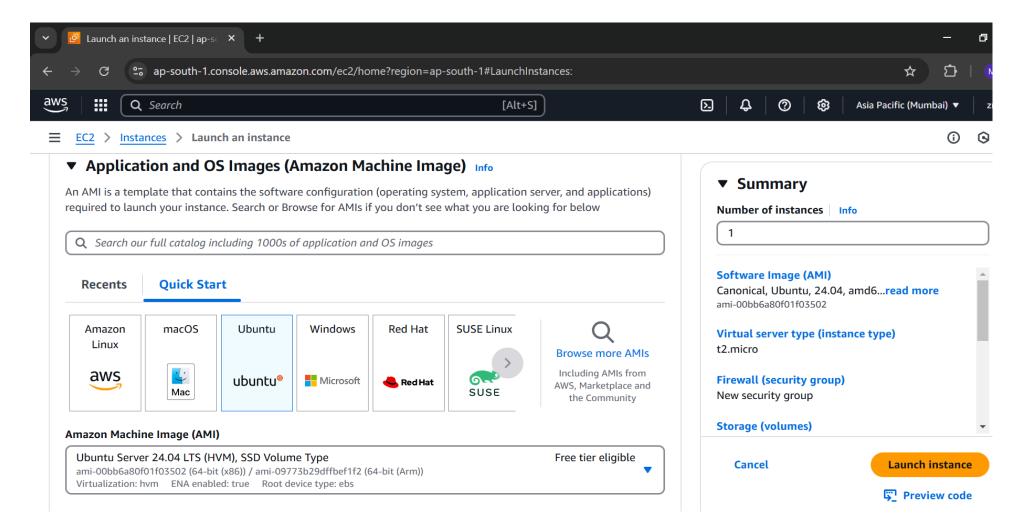
*) Type EC2 and select EC2 services



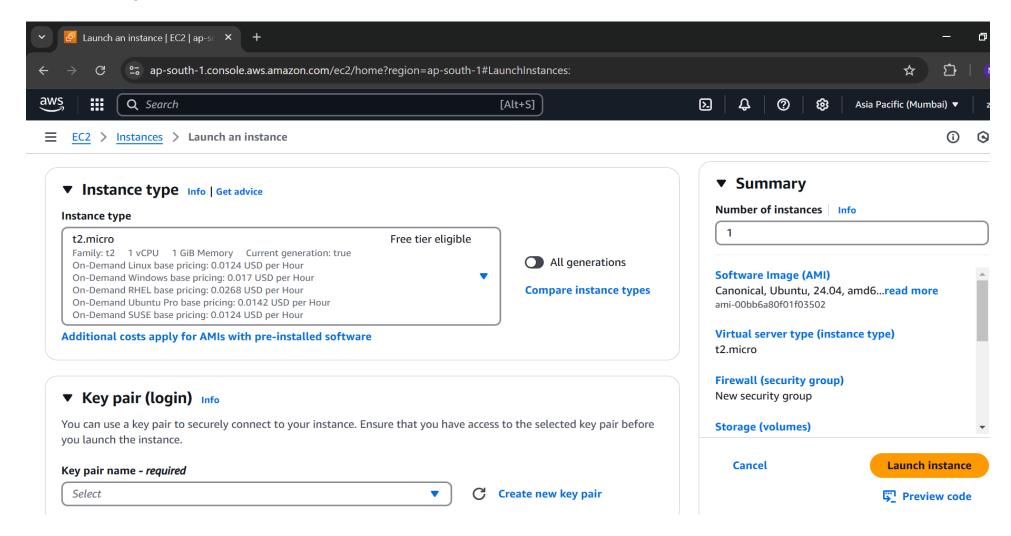
*) Click Launch Instances



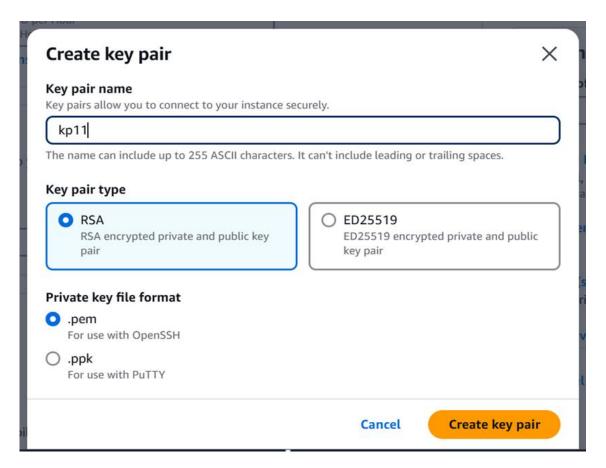
*) Give an instance name



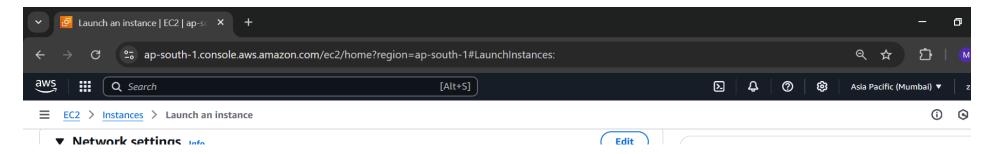
*) Select Ubuntu Server Image (Free tier)

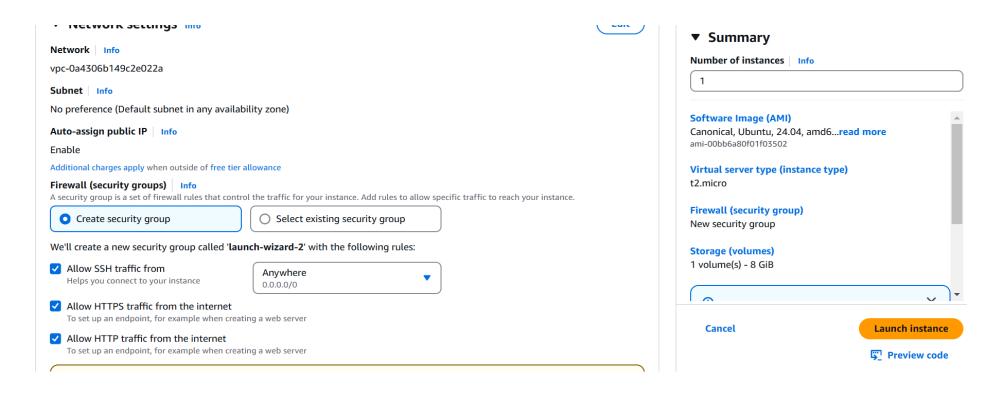


^{*)} Select t2.micro instance type (free tier) and click Create new key pair(for any future server access)

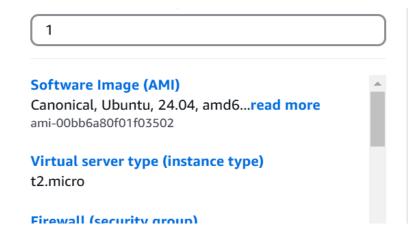


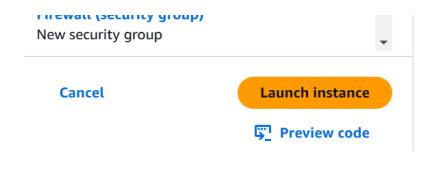
*) give a key pair name and keep rest as it is and click create key pair





*) Click Launch Instance and your Server is ready





≡ <u>EC2</u> > <u>Instances</u> > Launch an instance

Success
Successfully initiated launch of instance (i-0a476749238d4ea8c)

▶ Launch log

Next Steps

Q What would you like to do next with this instance, for example "create alarm" or "create backup"

Create billing and free tier usage alerts

To manage costs and avoid surprise bills, set up email notifications for

Connect to your instance

Once your instance is running, log into it from your local computer.

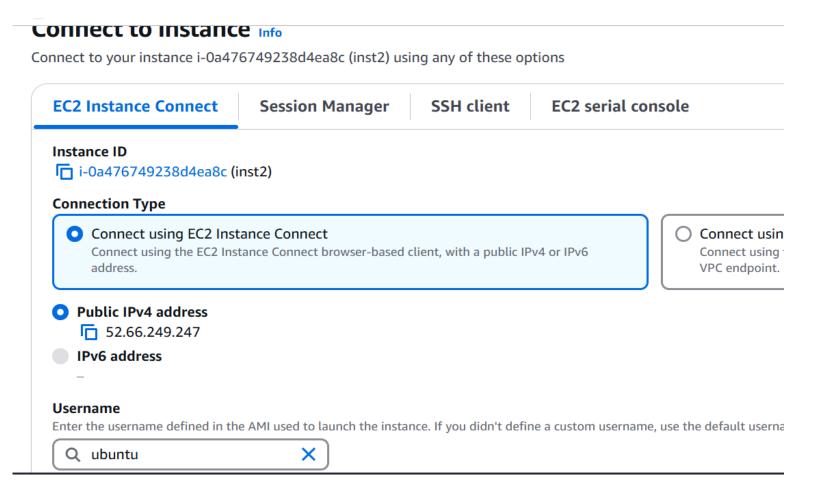
Connect an RDS database

Configure the connection between an EC2 instance and a database to allow traffic flow between them.

Create

Create a creation, EBS snap

*) Click connect to your instance to log into server



*) choose Connect using EC2 instance connect as Connection Type

Enable ESM Apps to receive additional future security updates. See https://ubuntu.com/esm or run: sudo pro status The list of available updates is more than a week old. To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-13-65:~\$

i-0a476749238d4ea8c (inst2)

PublicIPs: 52.66.249.247 PrivateIPs: 172.31.13.65

- *) You will see a terminal connected to server
- *) Type the following commands to update/install the libraries in the server and activate Mlflow server

to update the server, python and virtual environment library sudo apt update sudo apt install python3-pip sudo apt install python3-virtualenv

to create the virtual environment virtualeny env1

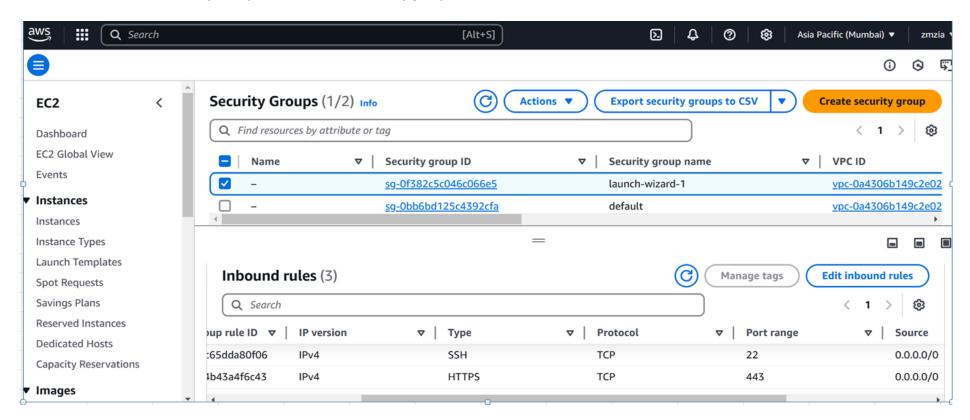
go to the bin folder in the newly created virtual environment

cd env1/bin

activate the virtual environment source activate

install MLFlow library pip install mlflow

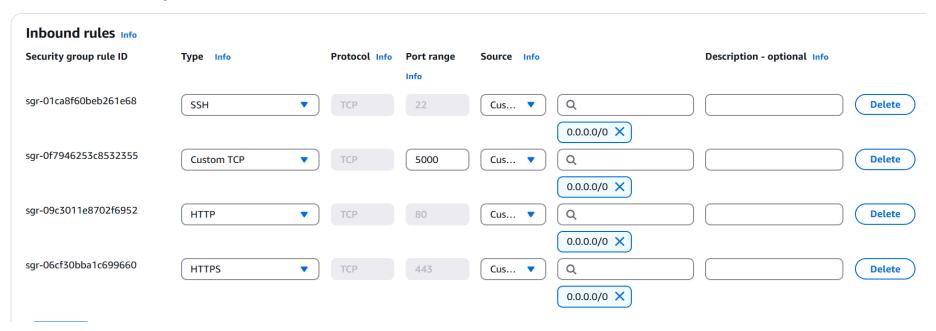
*) With the instance created click Security Groups, choose create security group and check the three Allow boxes



*) Choose launch-wizard-1 group, under the Inbound rules tab, and click Edit Inbound rules

Edit inbound rules info

Inbound rules control the incoming traffic that's allowed to reach the instance.

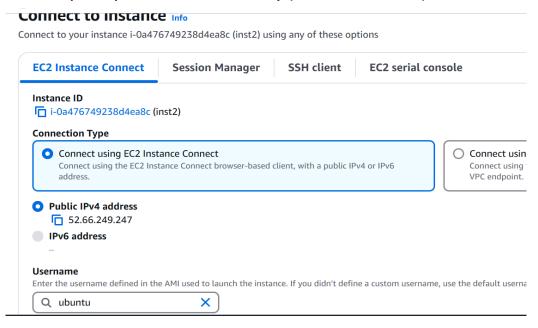


- *) Add rule, Custom TCP(Type), 5000(port range) and 0.0.0.0/0(Source) and Save
- *) go back to the EC2 instance window and start the MLFlow server mlflow server -h 0.0.0.0 --port 5000

```
(env1) ubuntu@ip-172-31-13-65:~/env1/bin$ mlflow server -h 0.0.0.0 --port 5000 [2025-02-14 17:13:35 +0000] [5103] [INFO] Starting gunicorn 23.0.0 [2025-02-14 17:13:35 +0000] [5103] [INFO] Listening at: http://0.0.0.0:5000 (5103) [2025-02-14 17:13:35 +0000] [5103] [INFO] Using worker: sync [2025-02-14 17:13:35 +0000] [5104] [INFO] Booting worker with pid: 5104
```

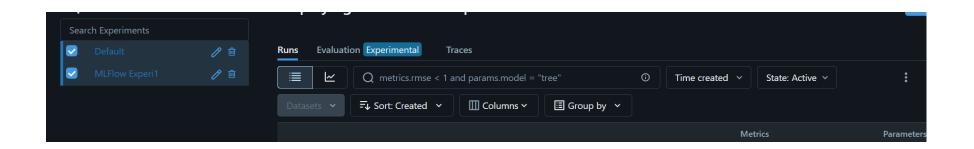
```
[2025-02-14 17:13:35 +0000] [5105] [INFO] Booting worker with pid: 5105 [2025-02-14 17:13:35 +0000] [5106] [INFO] Booting worker with pid: 5106 [2025-02-14 17:13:35 +0000] [5107] [INFO] Booting worker with pid: 5107
```

- *) server is started and you can copy the public ip of the server and start using in your code for experiment tracking
- *) you can retrieve public ip address from various ways(below is one of them)



*) access MLFlow Dashboard from browser like http://52.66.249.247:5000





*) use this server for experiment tracking in the code (sample)
mlflow.set_tracking_uri("http://52.66.249.247:5000")
exp = mlflow.set_experiment("demo1")