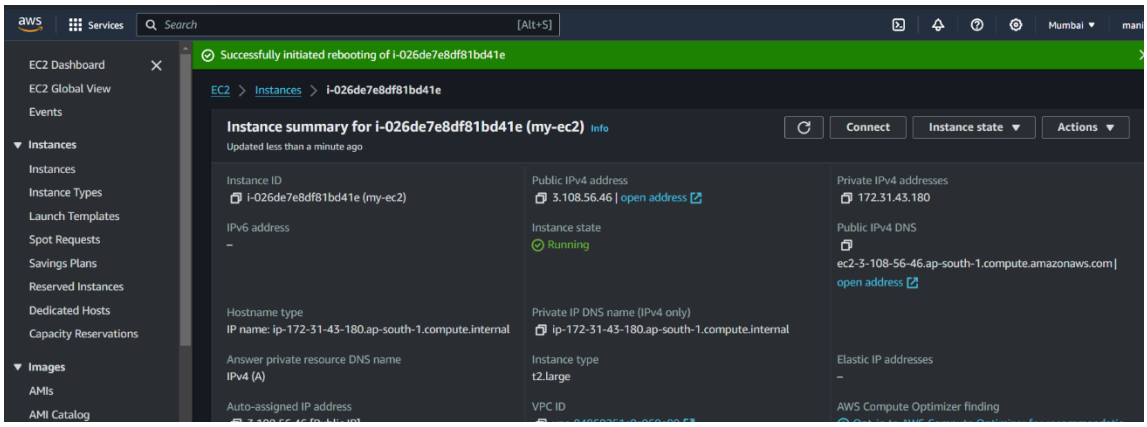
EXPOSING A SIMPLE PYTHON SCRIPT IN DOCKER CONTAINERS THROUGH PORTS

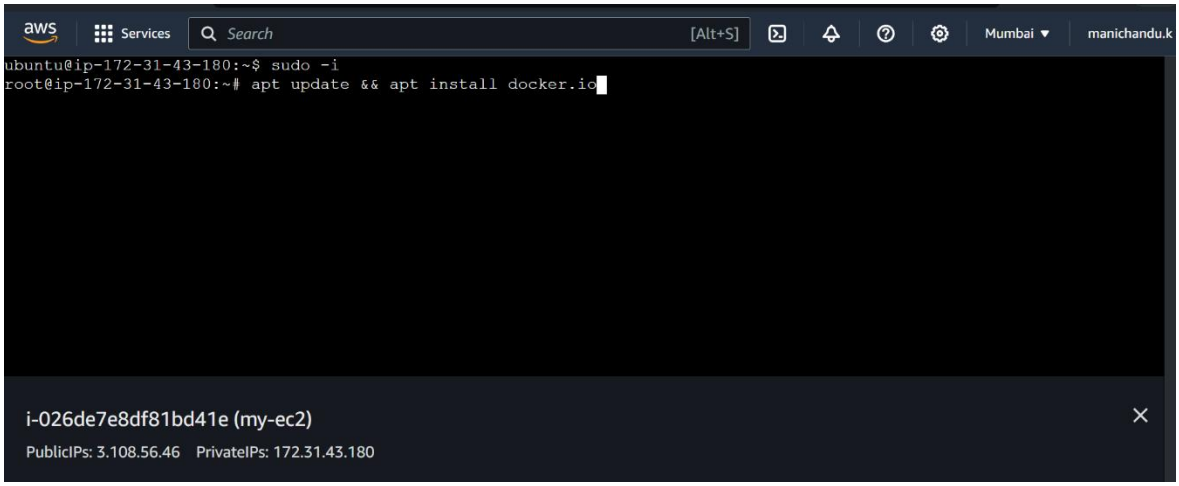
- First launch an EC2 instance of instance-type “t2.large”



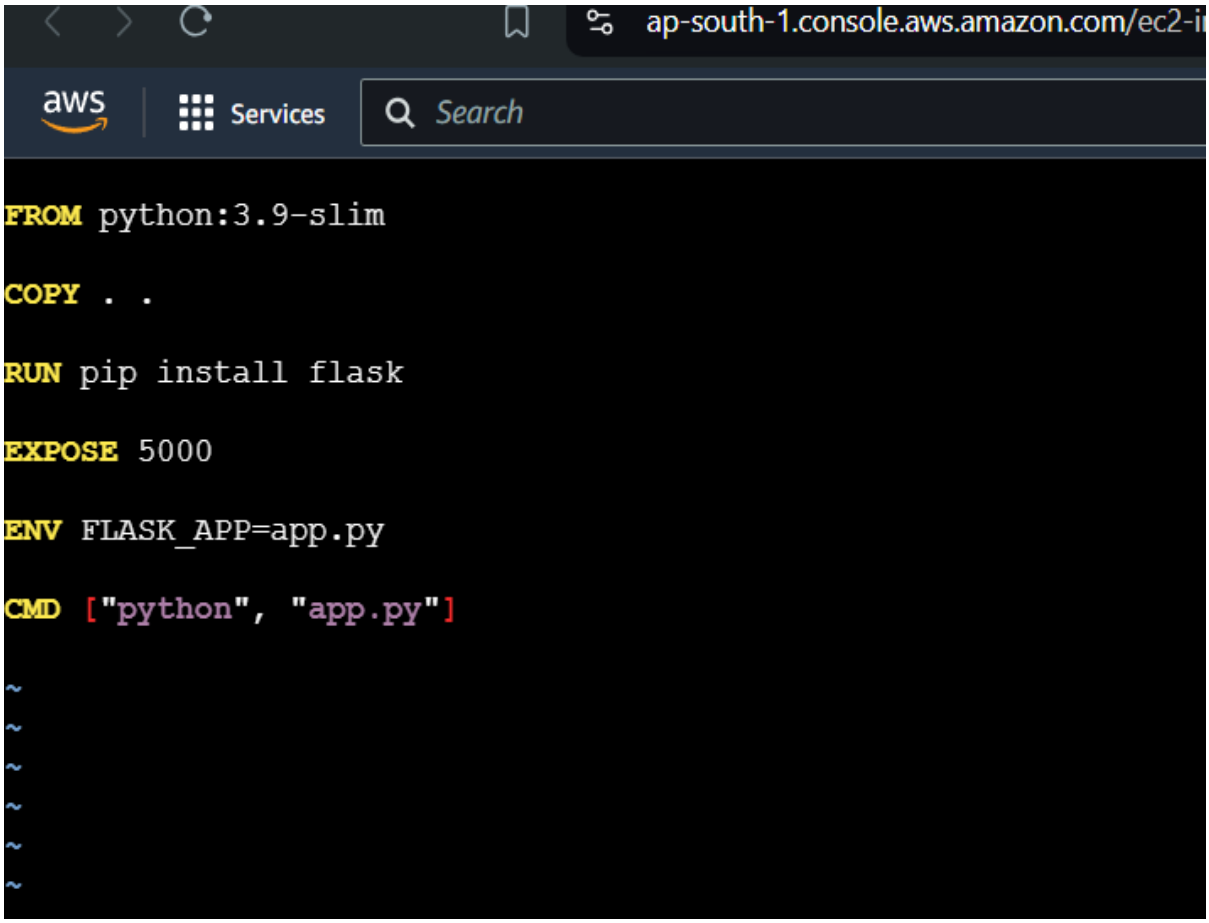
- Next connect to the instance and run these commands

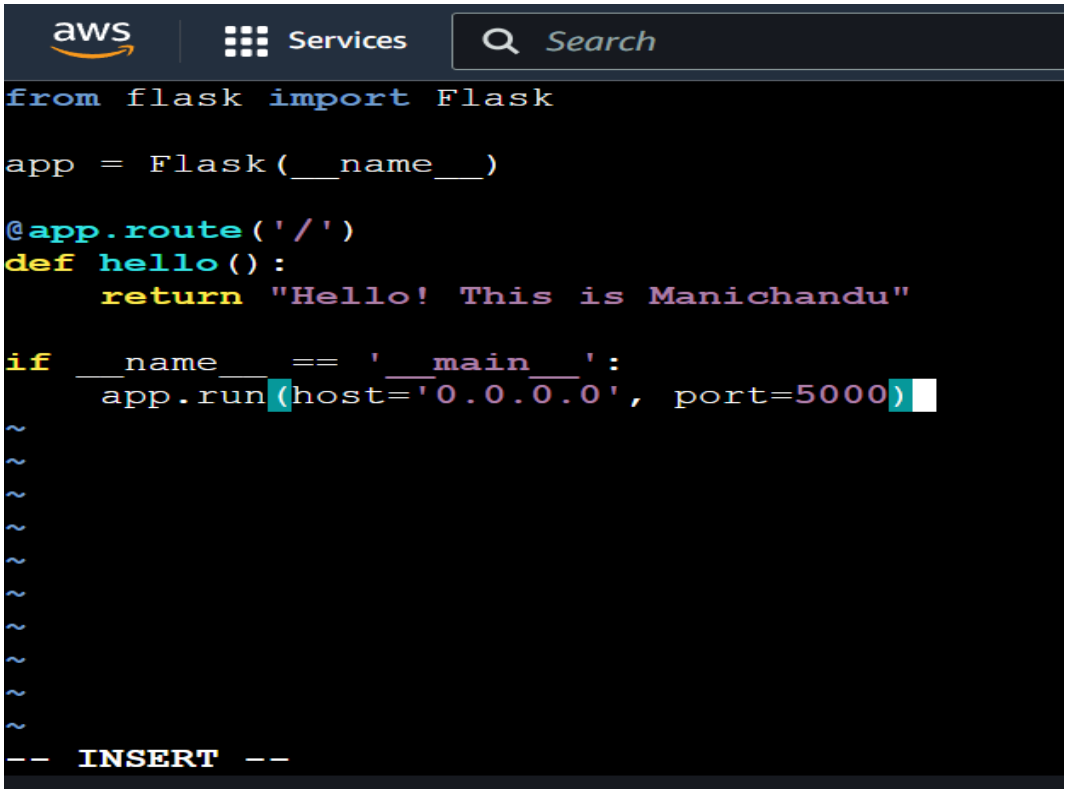
Sudo -i

apt update && apt install docker.io

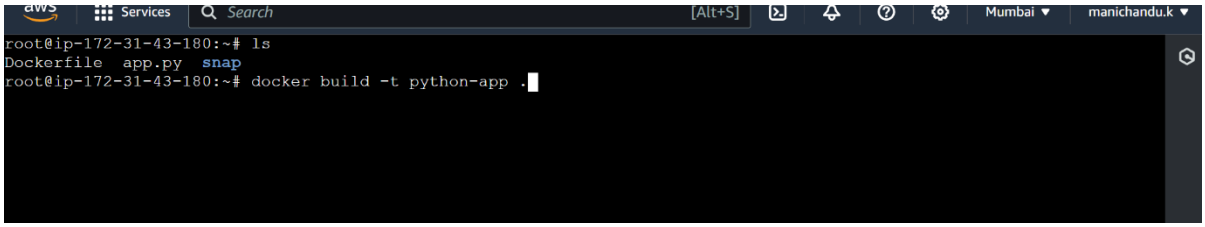


- After installing docker write “Dockerfile” and python application script using “.py” extension.

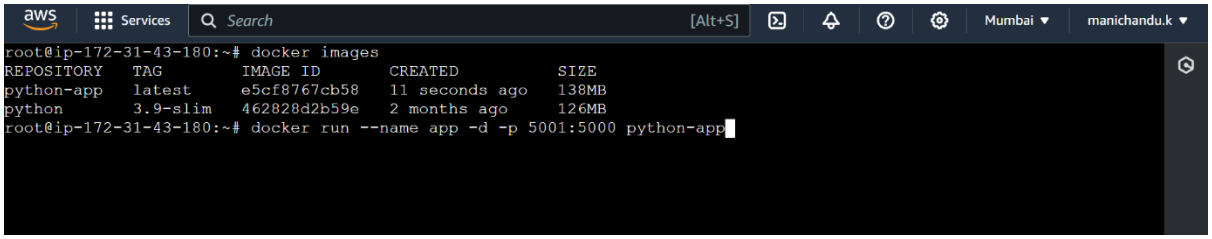

ap-south-1.console.aws.amazon.com/ec2-i
aws
Services
Search
FROM python:3.9-slim
COPY . .
RUN pip install flask
EXPOSE 5000
ENV FLASK_APP=app.py
CMD ["python", "app.py"]


aws
Services
Search
from flask import Flask
app = Flask(__name__)
@app.route('/')
def hello():
return "Hello! This is Manichandu"
if __name__ == '__main__':
app.run(host='0.0.0.0', port=5000)
-- INSERT --

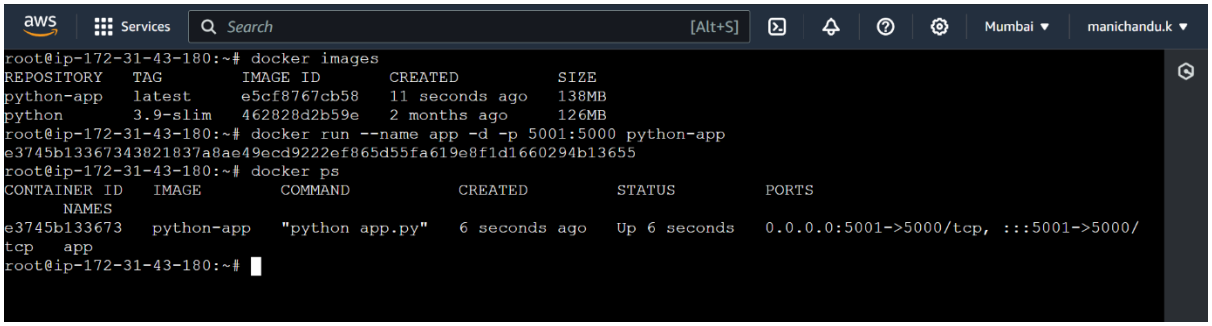
- Now it is time to build the image from our Dockerfile.



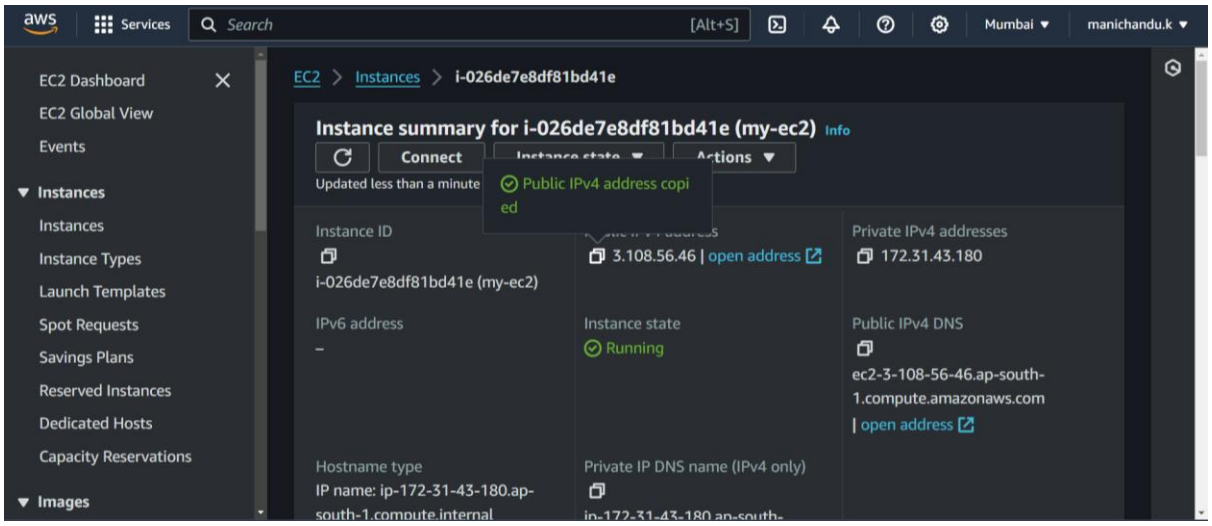
- Now create a container using this image.



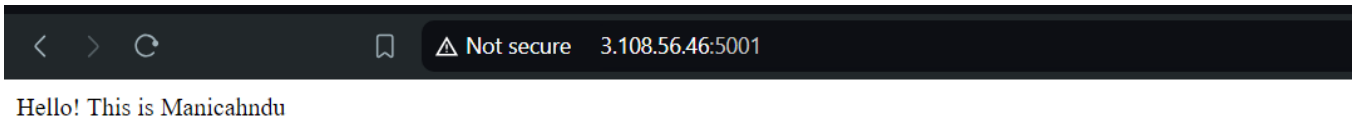
- Check whether the container is running.



- Now access the application using the public-ip address of the instance and the port number.



- We successfully run our python script in docker container.



Hello! This is Manicahndu