#### Docker Task -2

### **Task Description:**

Create a dockerfile, docker-compose file which when executed must display your basic details in the website.

# Techstacks needs to be used:

- AWS EC2
- Docker

### Step1

- Create directory as below
  - o project/
    - docker file
    - server.py
    - docker-compose.yml
    - index.html
    - **■** app/

```
ec2-user@ip-172-31-31-52:~/project

[ec2-user@ip-172-31-31-52 project]$ [ec2-user@ip-172-31-31-52 project]$ 11
total 16

'drwxr-xr-x. 3 ec2-user ec2-user 45 Nov 29 03:50 app
-rw-r--r-. 1 ec2-user ec2-user 86 Nov 29 04:52 docker-compose.yml
-rw-r--r-. 1 ec2-user ec2-user 318 Nov 29 05:03 dockerfile
-rw-r--r-. 1 ec2-user ec2-user 391 Nov 29 04:38 index.html
-rw-r--r-. 1 ec2-user ec2-user 201 Nov 29 03:46 server.py
[ec2-user@ip-172-31-31-52 project]$
```

• Create dockerfile

```
ec2-user@ip-172-31-31-52 project]$ cat dockerfile
FROM ubuntu
RUN mkdir -p /app/templates
COPY server.py /app/server.py
COPY index.html /app/templates/index.html
WORKDIR /app/templates
WORKDIR /app
RUN apt-get update -y
RUN apt-get install -y python3
RUN apt-get install -y python3-pip
RUN pip3 install Flask --break-system-packages
EXPOSE 5000
CMD python3 server.py

[ec2-user@ip-172-31-31-52 project]$
```

• Create docker-compose.yml

```
ec2-user@ip-172-31-31-52:~/project

[ec2-user@ip-172-31-31-52 project]$ cat docker-compose.yml version: "3"

services:
    web:
        image: satthya
        ports:
        - "8080:5000"

[ec2-user@ip-172-31-31-52 project]$
```

# Step2

- Run dockerbuild
  - o sudo docker build . -t satthya

- Run docker compose
  - o sudo docker-compose up
  - o this will help to manage multiple containers. Ensure the container is up and running

