CONTAINER ORCHESTRATION AND INFRASTRUCTURE AUTOMATION LAB

NAME- Shubhi Dixit

BATCH- 05

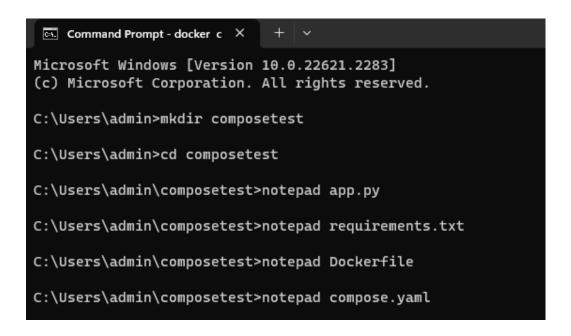
SAP ID- 500094571

Docker Compose

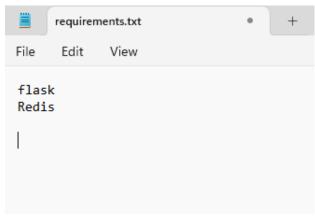
Step 1- Create the directory "composetest"

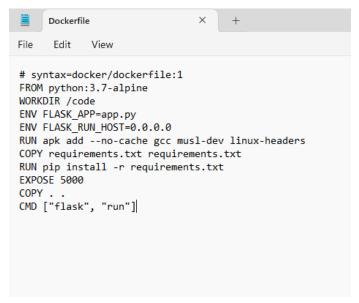
Step 2- Change the current directory to "composetest"

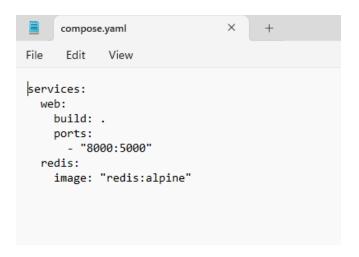
Step 3- Create 4 files named "app.py", "requirements.txt", "Dockerfile" and "compose.yaml"



```
app.py
File
      Edit
              View
import time
import redis
from flask import Flask
app = Flask( name )
cache = redis.Redis(host='redis', port=6379)
def get_hit_count():
    retries = 5
    while True:
             return cache.incr('hits')
         except redis.exceptions.ConnectionError as exc:
              if retries == 0:
                  raise exc
              retries -= 1
             time.sleep(0.5)
@app.route('/')
def hello():
    count = get_hit_count()
return 'Hello World! I have been seen {} times.\n'.format(count)
```

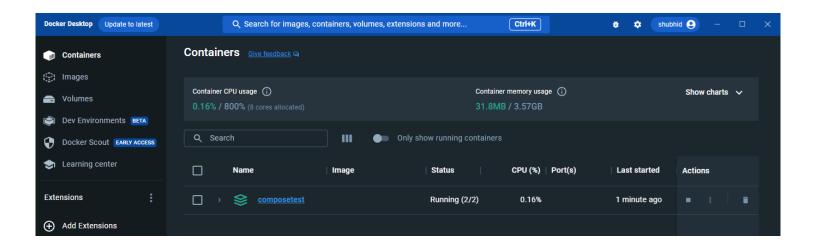






Step 4- Use the command "docker-compose up", this will starts all the services defined in your docker-compose.yml file and will automatically create a container.

```
C:\Users\admin\composetest>docker compose up
[+] Building 30.9s (15/15) FINISHED
                                                                                                                                          docker:default
   [web internal] load build definition from Dockerfile
                                                                                                                                                    0.05
=> => transferring dockerfile: 329B
=> [web internal] load .dockerignore
                                                                                                                                                    0.05
                                                                                                                                                    0.05
=> [web] resolve image config for docker.io/docker/dockerfile:1
=> [web auth] docker/dockerfile:pull token for registry-1.docker.io
=> CACHED [web] docker-image://docker.io/docker/dockerfile:1@sha256:ac85f380a63b13dfcefa89046420e1781752bab202122f8f50032edf31be0021
=> [web internal] load metadata for docker.io/library/python:3.7-alpine
=> [web auth] library/python:pull token for registry-1.docker.io
                                                                                                                                                    0.0s
=> [web 1/6] FROM docker.io/library/python:3.7-alpine@sha256:9d9b05fc8acdc85a9fc0da1da11a8e90f76b88bd36fabb8f57c4c7ef027fbcc9
                                                                                                                                                    3.95
                                                                                                                                                    0.05
=> => sha256:f26771d857d7bfe2ecd624f357e8391f27f30ec6960d4c1240babf76a8391466 243B / 243B
                                                                                                                                                    0.35
=> => sha256:9d9b05fc8acdc85a9fc0da1da11a8e90f76b88bd36fabb8f57c4c7ef027fbcc9 1.65kB / 1.65kB
   => sha256:0c844a18f7b7b7177cdbe35d5ec934a7801bab3470817321902a6f57c7f67c24 1.37kB / 1.37kB
=> => sha256:1b091ebaa5db12afd53b9c1fd5cd9fe95751ffb789c2ce5e530e6a66f535d1f8 6.87kB / 6.87kB
```



Step 5- Now use the browser to see whether the services are working properly or not.



Hello World! I have been seen 1 times.



Hello World! I have been seen 6 times.

Step 6- Use the command "docker-compose down", this will stop and remove the containers, networks, and volumes defined in your docker-compose.yml file.

```
composetest-web-1
compose
```