

ASSIGNMENT – 4

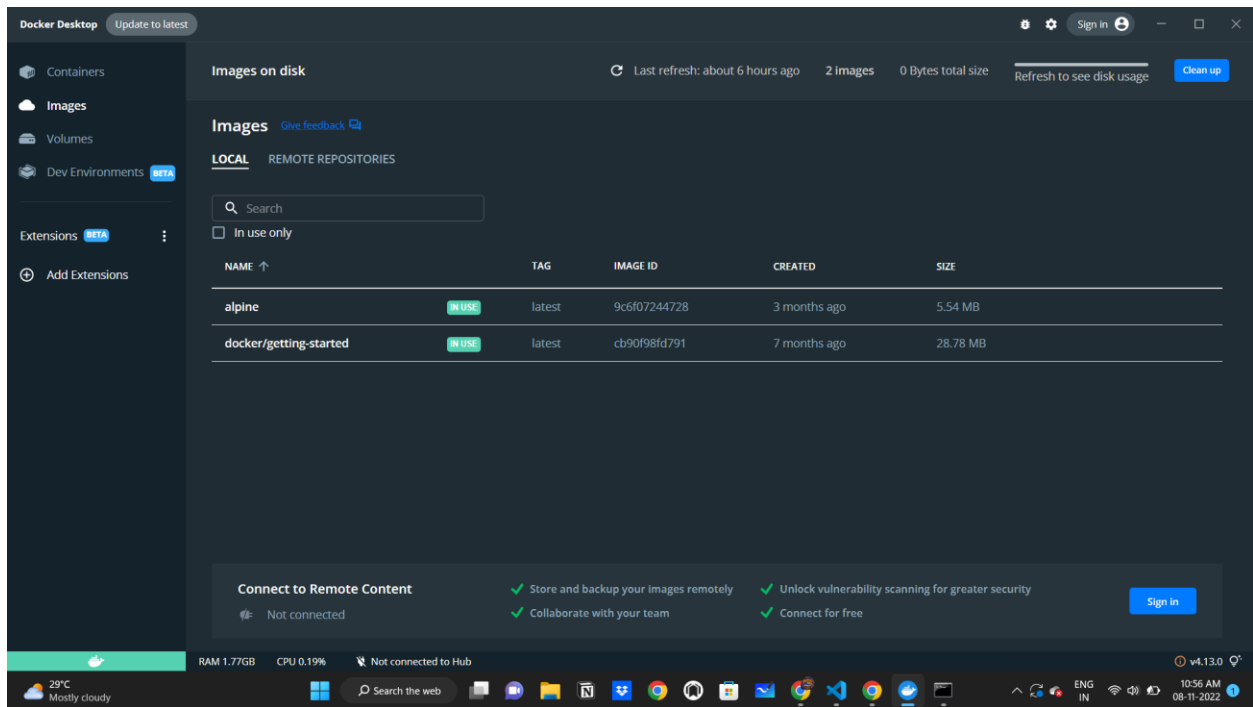
PLASMA DONOR APPLICATION

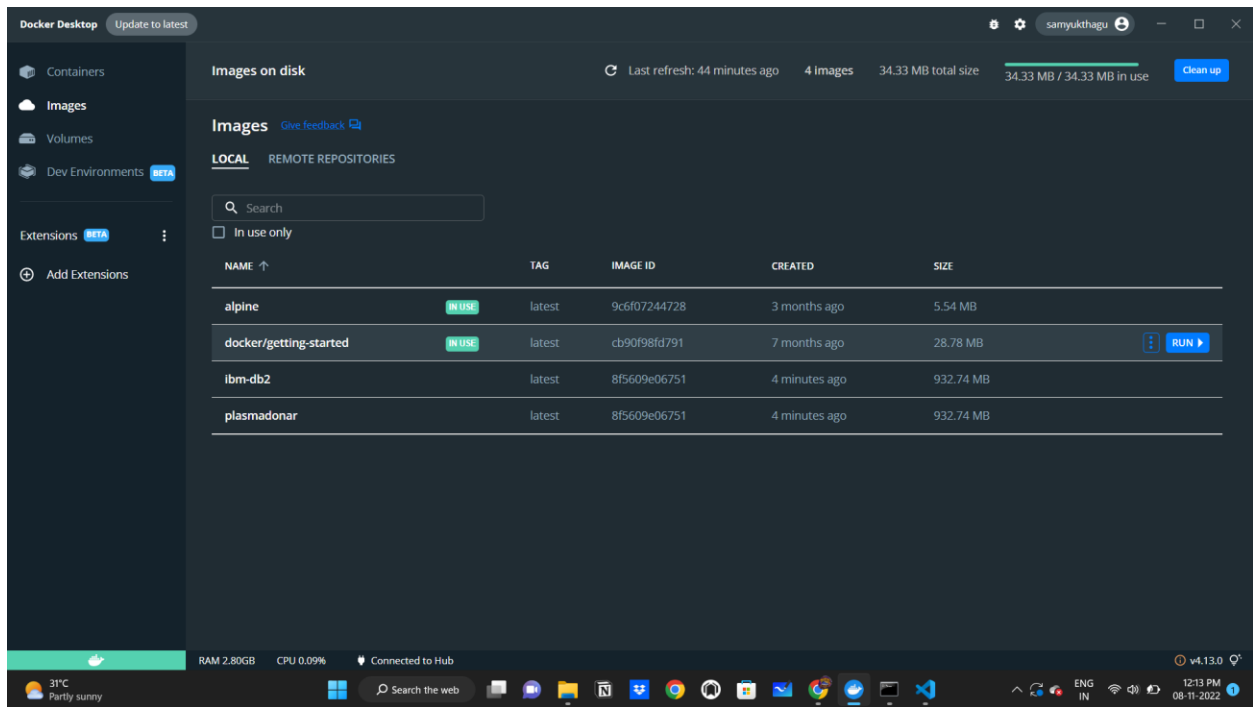
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Questions :

- 1.Pull an Image from docker hub and run it in docker playground.
- 2.Create a docker file for the job portal application and deploy it in Docker desktop application.
- 3.Create a IBM container registry and deploy hello world app or job portal app.
- 4.Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

Pull an image from docker hub :





Coding for pull an image in docker hub :

```
Microsoft Windows [Version 10.0.22000.1098]
(c) Microsoft Corporation. All rights reserved.

C:\Users\parva>docker run -d -p 80:80 docker/getting-started
Unable to find image 'docker/getting-started:latest' locally
latest: Pulling from docker/getting-started
d99b388f04e: Pull complete
5867c8a5fcd: Pull complete
4b639e5c3b3: Pull complete
061ed9e2b976: Pull complete
bc19f3e8eeb1: Pull complete
4071be97c256: Pull complete
79f586f1a5db: Pull complete
0c9732f525d6: Pull complete
Digest: sha256:b558be874169471bd4e65bd6eac8c303b271a7ee8553ba47481b73b2bf597aae
Status: Downloaded newer image for docker/getting-started:latest
ac9ce08124cf2d8e433bb14de75ccd79902b99ad5c4d680bc90513741b65f26b

C:\Users\parva>docker container run alphino echo "Hello world"
Unable to find image 'alphino:latest' locally
docker: Error response from daemon: pull access denied for alphino, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.
See 'docker run --help'.

C:\Users\parva>docker container run alpine echo "Hello world"
Unable to find image 'alpine:latest' locally
latest: Pulling from library/alpine
213ec9aee27d: Pull complete
Digest: sha256:bc41182d7ef5fffc53a40b044e725193bc10142a1243f395ee852a8d9738fc2ad
Status: Downloaded newer image for alpine:latest
Hello world

C:\Users\parva>cd..

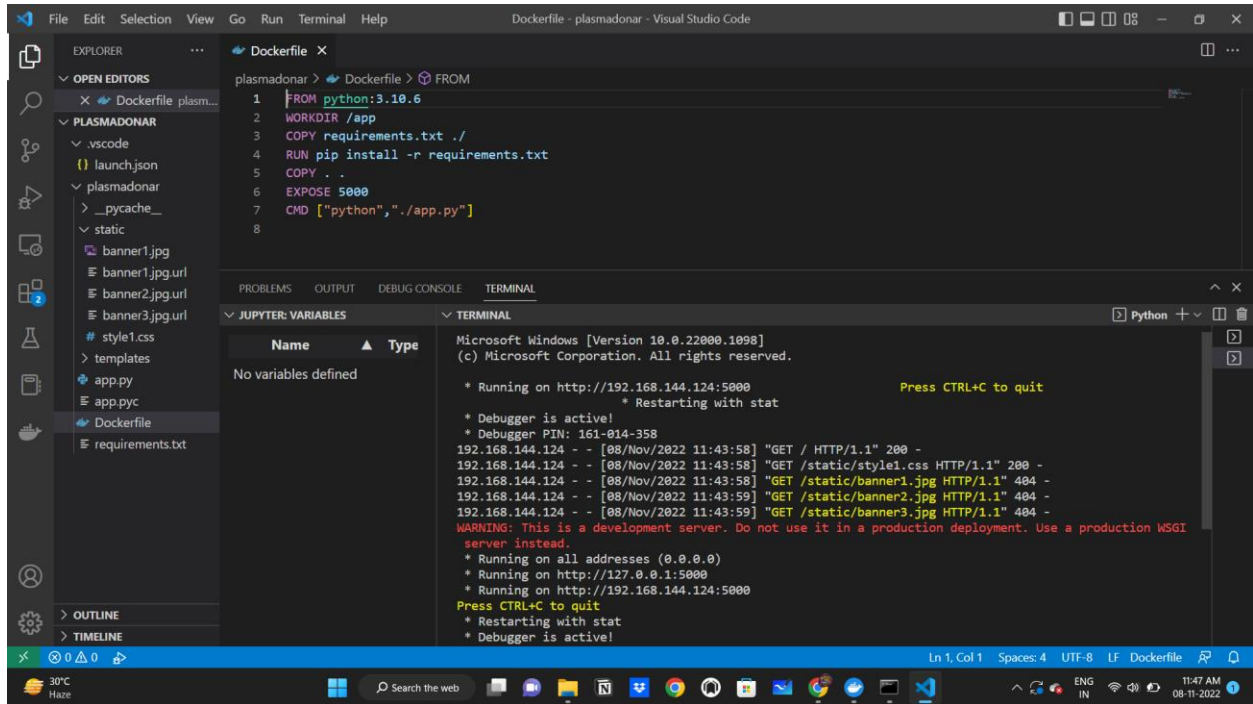
C:\Users>docker run -d -p 80:80 docker/getting-started
ad4e6cfad09566c857edc768b731cf8fc64dc3fc7cbc64bc0124e5fab383b4ec
docker: Error response from daemon: driver failed programming external connectivity on endpoint sweet_vaughan (e2fee54ddc66e45a890e8f1189f79c70ac1ed4e5f1da6a0c42d373487ae2dba1): Bind for 0.0.0.0:80 failed: port
is already allocated.

C:\Users>docker container run alphino echo "Hello world"
Unable to find image 'alphino:latest' locally
docker: Error response from daemon: pull access denied for alphino, repository does not exist or may require 'docker login': denied: requested access to the resource is denied.
See 'docker run --help'.

C:\Users>
```

[illegible]

Docker File :



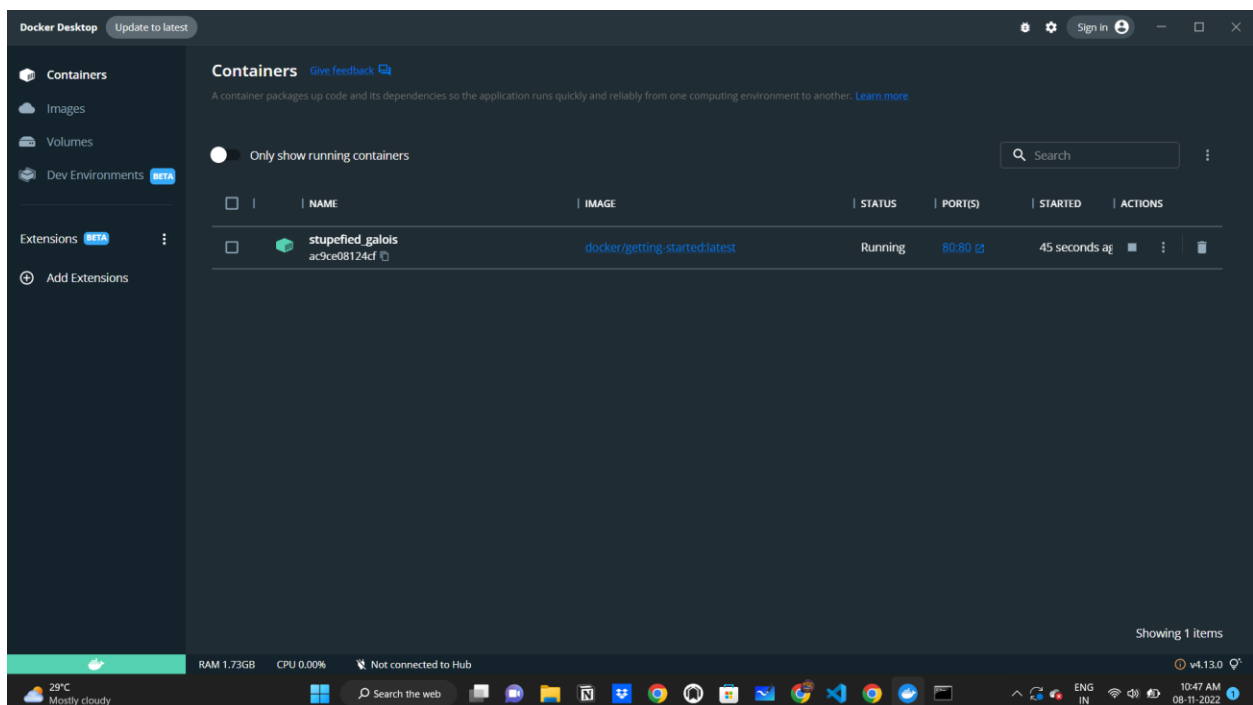
The screenshot shows the Visual Studio Code interface with a Dockerfile open in the editor. The Dockerfile contains the following instructions:

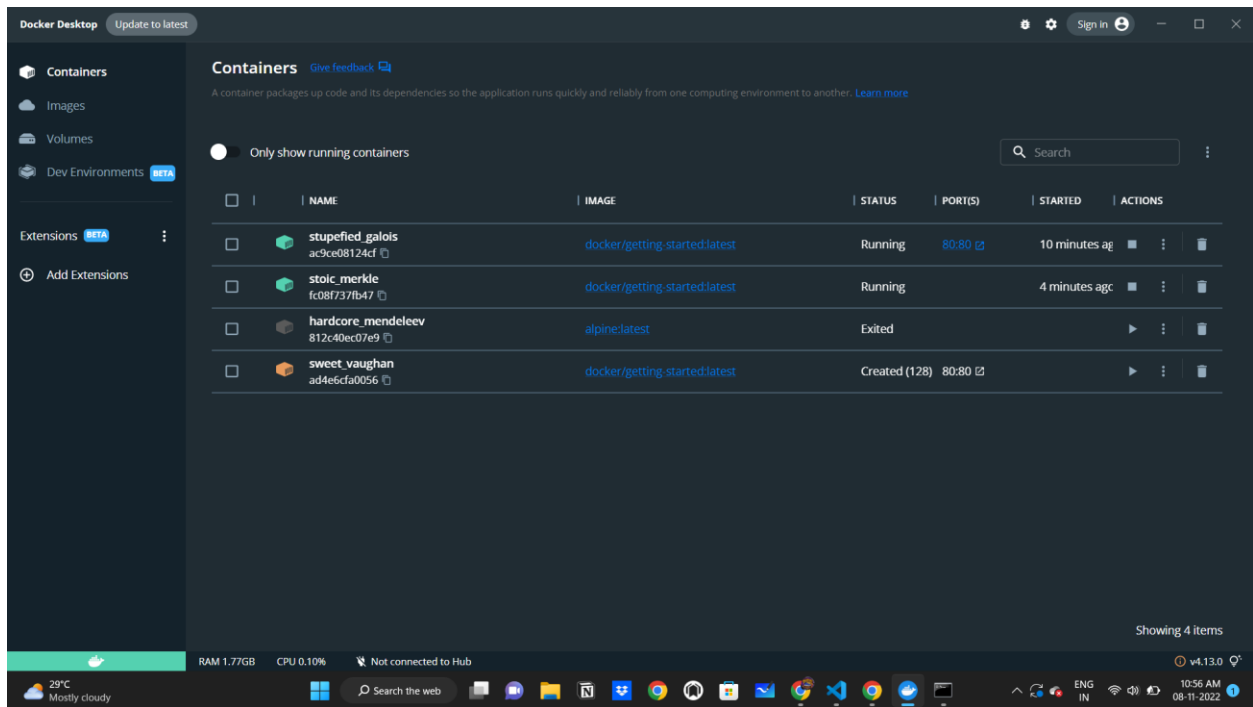
```
1 FROM python:3.10.6
2 WORKDIR /app
3 COPY requirements.txt ./
4 RUN pip install -r requirements.txt
5 COPY . .
6 EXPOSE 5000
7 CMD ["python", "./app.py"]
8
```

The terminal window shows the output of the Docker build and run process. It indicates that the container is running on http://192.168.144.124:5000 and displays the following logs:

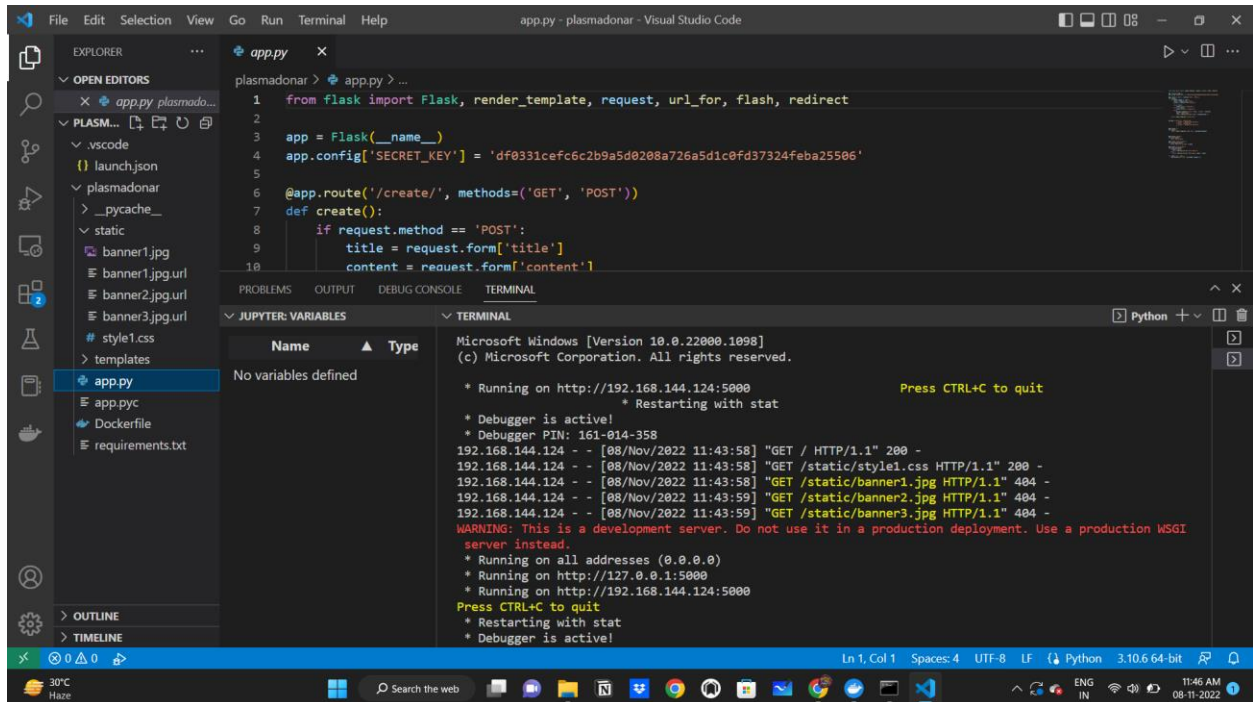
```
* Running on http://192.168.144.124:5000
* Debugger is active!
* Restarting with stat
192.168.144.124 - - [08/Nov/2022 11:43:58] "GET / HTTP/1.1" 200 -
192.168.144.124 - - [08/Nov/2022 11:43:58] "GET /static/style1.css HTTP/1.1" 200 -
192.168.144.124 - - [08/Nov/2022 11:43:58] "GET /static/banner1.jpg HTTP/1.1" 404 -
192.168.144.124 - - [08/Nov/2022 11:43:58] "GET /static/banner2.jpg HTTP/1.1" 404 -
192.168.144.124 - - [08/Nov/2022 11:43:58] "GET /static/banner3.jpg HTTP/1.1" 404 -
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI
server instead
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://192.168.144.124:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
```

IBM Container :





Hello world program :



Home Page :

