Assignment-4
PLASMA DONOR APPLICATION

TEAM ID - PNT2022TMID26173

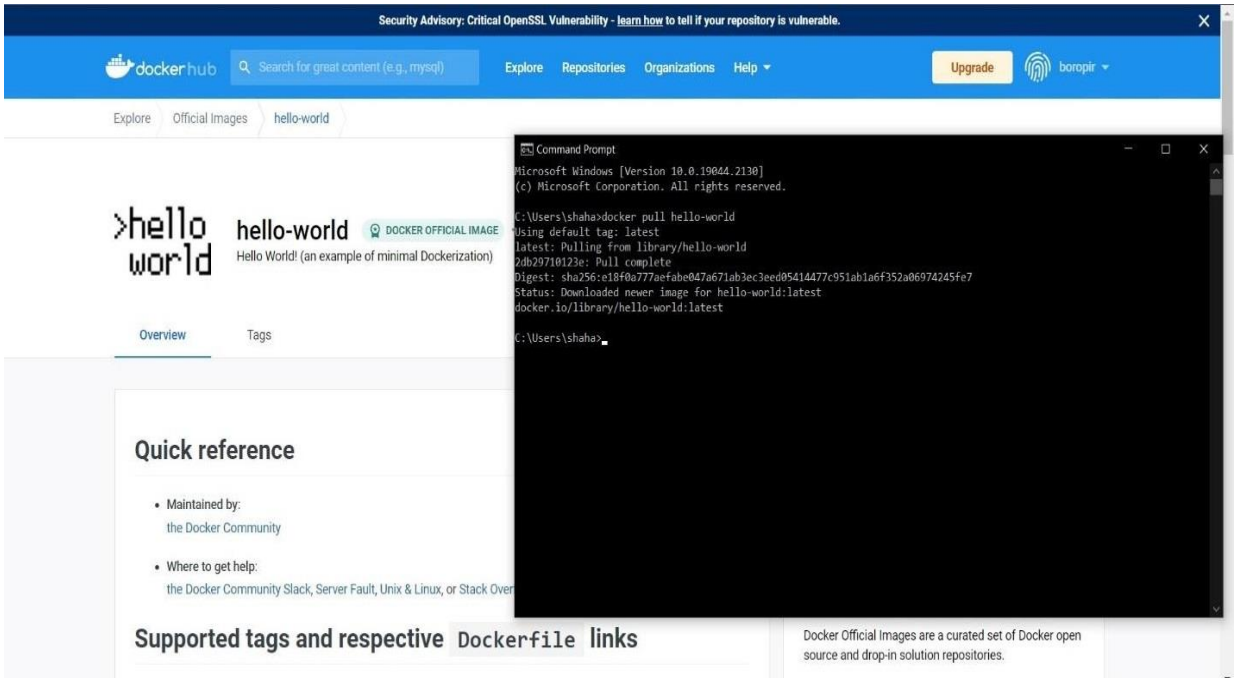
TEAM LEADER : DHILEEPAN P

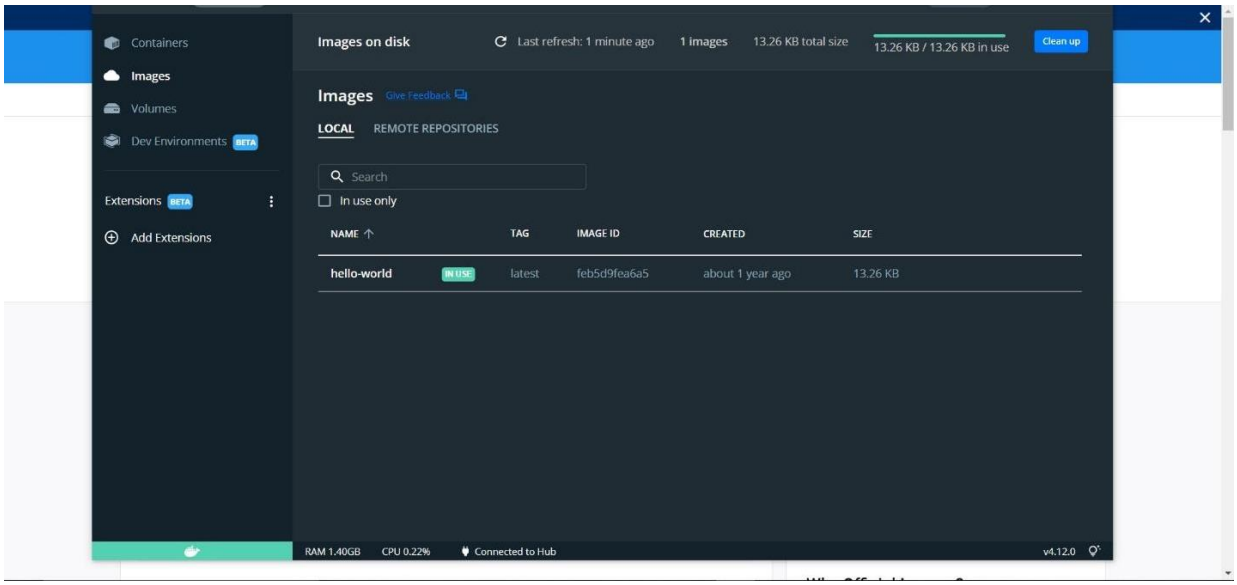
TEAM MEMBER : CHARAN G

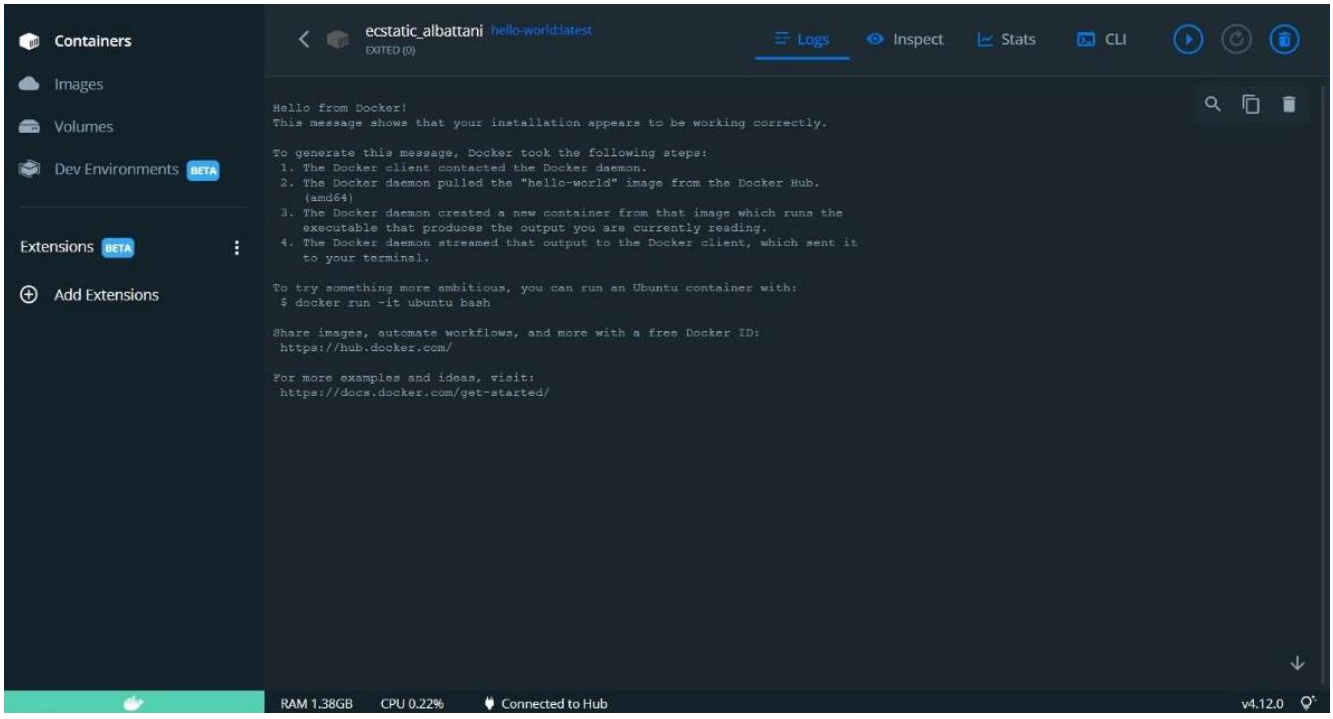
TEAM MEMBER: DHANUSH R

TEAM MEMBER: DHARUN I

1. Pull an Image from docker hub and run it in docker playground.

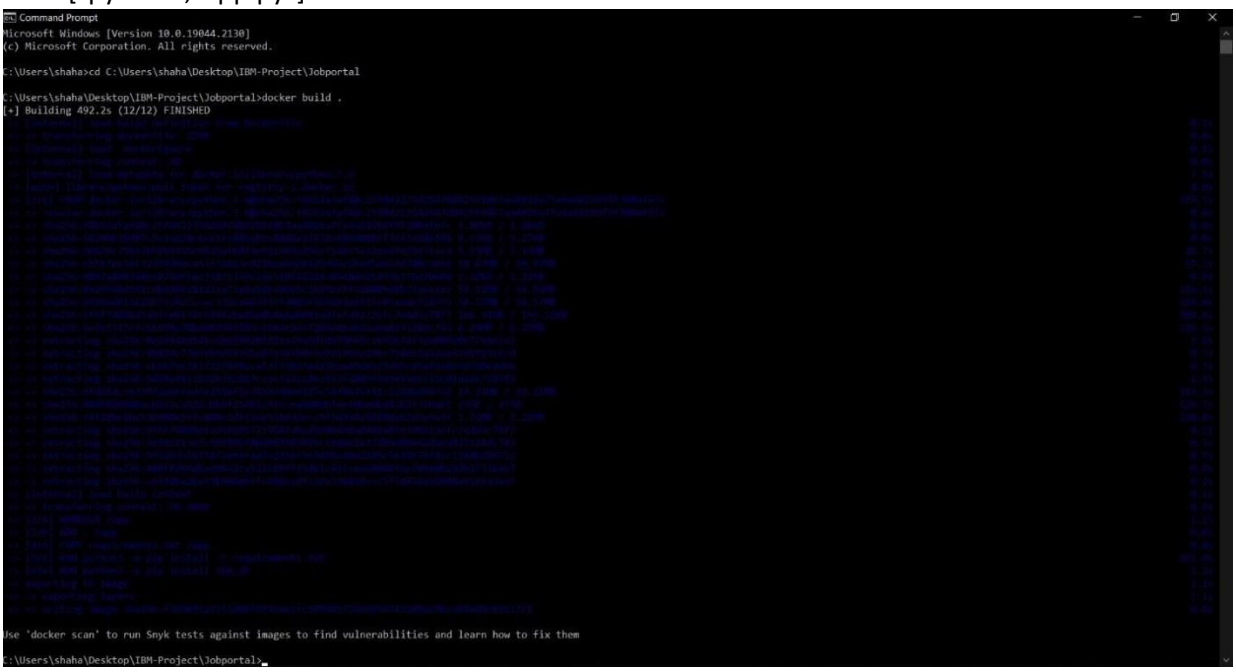


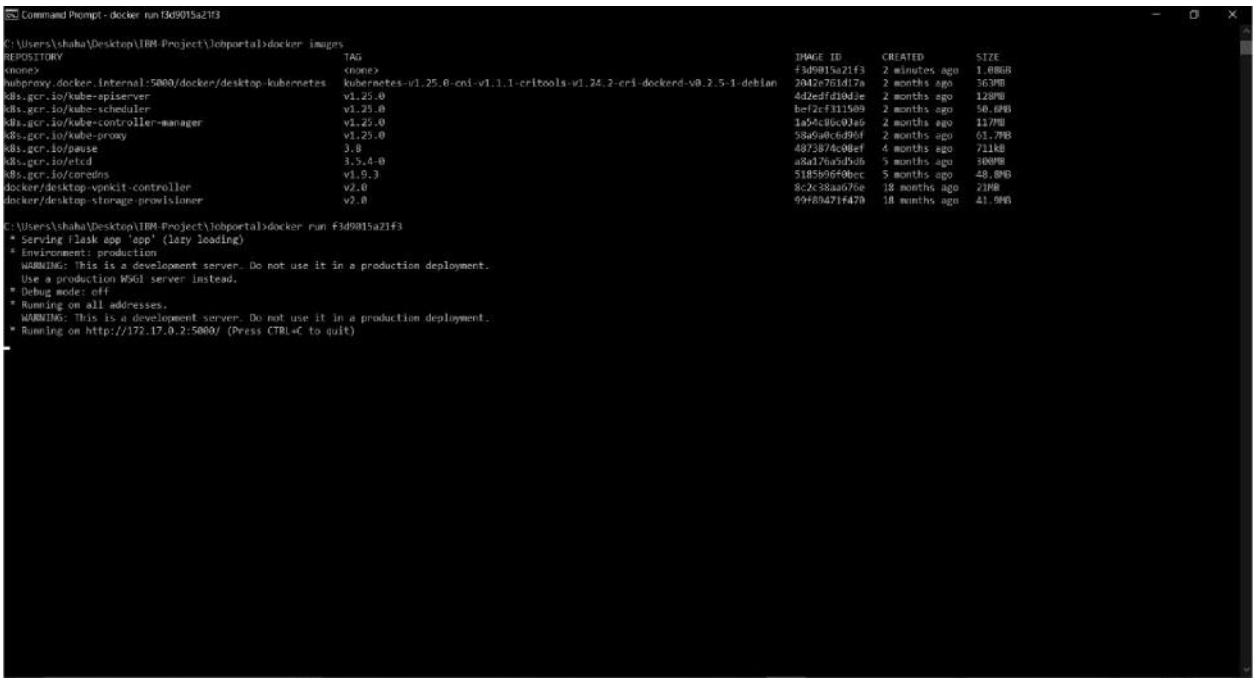

Containers
Images
Volumes
Dev Environments BETA
Extensions BETA
Add Extensions
Images on disk
Last refresh: 1 minute ago
1 images
13.26 KB total size
13.26 KB / 13.26 KB in use
Clean up
Images
Give Feedback
LOCAL
REMOTE REPOSITORIES
Search
In use only
NAME
TAG
IMAGE ID
CREATED
SIZE
hello-world
IN USE
latest
feb5d9fea6a5
about 1 year ago
13.26 KB
RAM 1.40GB
CPU 0.22%
Connected to Hub
v4.12.0


Containers
Images
Volumes
Dev Environments BETA
Extensions BETA
Add Extensions
ecstatic_albattani
hello-world:latest
EXITED (0)
Logs
Inspect
Stats
CLI
Hello from Docker!
This message shows that your installation appears to be working correctly.
To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
(amd64)
3. The Docker daemon created a new container from that image which runs the
executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
to your terminal.
To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash
Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/
For more examples and ideas, visit:
https://docs.docker.com/get-started/
RAM 1.38GB
CPU 0.22%
Connected to Hub
v4.12.0

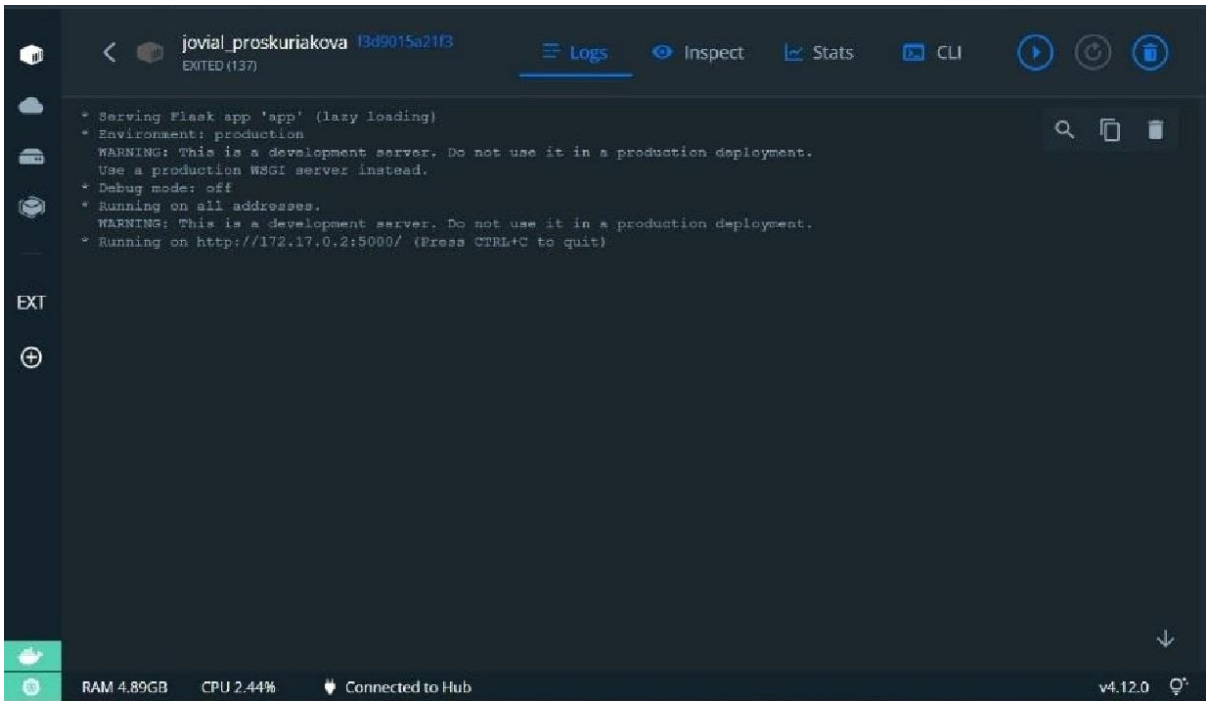
2. Create a docker file for the jobportal application and deploy it in Docker desktop application.
   Dockerfile:

```
FROM python:3.6

WORKDIR /app

ADD. /app

COPY requirements.txt /app

RUN python3 -m pip install -r requirements.txt

RUN python3 -m pip install ibm_db

EXPOSE 5000

CMD ["python","app.py"]
```

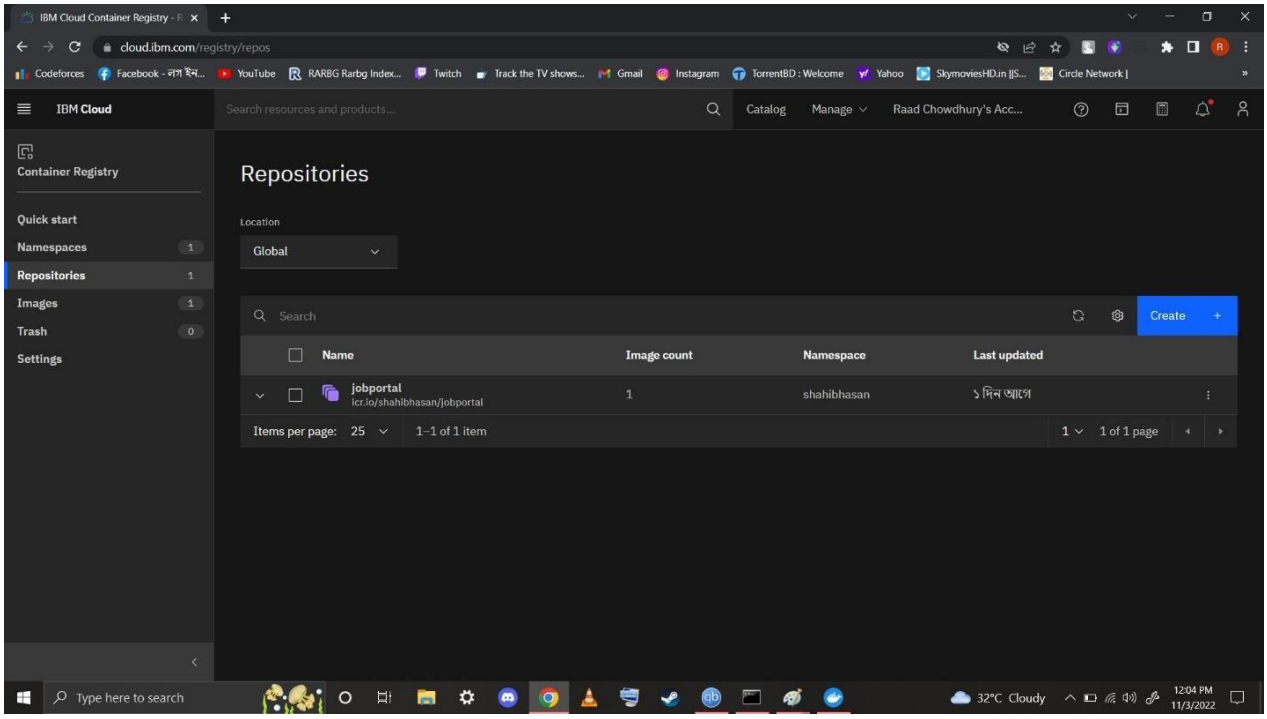




Available Jobs



3. Create a IBM container registry and deploy jobportalapp.



4. Create a Kubernetes cluster in IBM cloud and deploy jobportal image and also expose the same app to run in nodeport.