

ASSIGNMENT IV

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

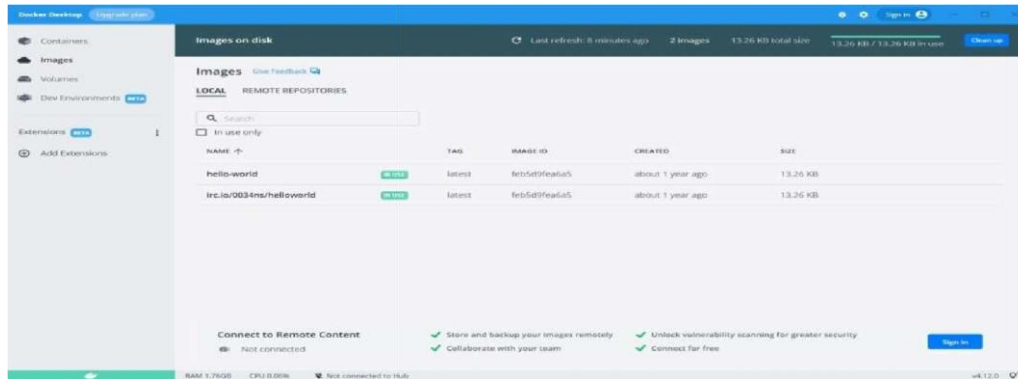
The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a clock showing 19:53:10, a 'CLOSE SESSION' button, and a list of instances. The main area displays the IP address 192.168.0.17, a memory bar, and an SSH terminal. The terminal shows the following commands and output:

```
[node2] (local) root@192.168.0.17 ~
$ docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
sandeepdoodigani/sandeepplasmaapp  latest         5653112dee63   16 months ago  105MB
<none>              <none>         965940f98fa5   6 years ago    8.1MB
[node2] (local) root@192.168.0.17 ~
$ docker run -p 8080:8080 sandeepdoodigani/sandeepplasmaapp
* Serving Flask app 'app' (lazy loading)
* Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Debug mode: off
* Running on all addresses.
```

- Create a docker file for the jobportal application and deploy it in Docker desktop application.

The screenshot shows the Dockerfile editor in Docker Desktop. The Dockerfile content is as follows:

```
1 FROM python:3.6
2 WORKDIR /app
3 ADD . /app
4 COPY requirements.txt /app
5 RUN python3 -m pip install -r requirements.txt
6 RUN python3 -m pip install ibm_db
7 EXPOSE 5000
8 CMD ["python", "app.py"]
```

- Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in node port

