ASSIGNMENT - 4

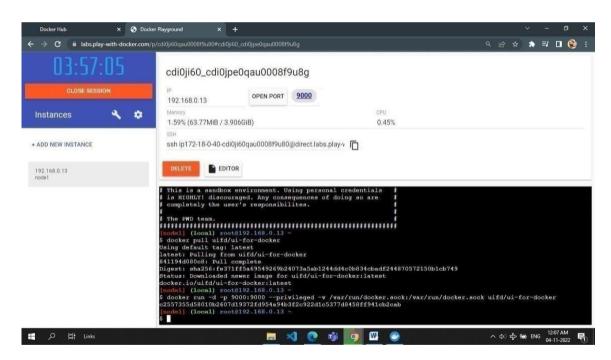
Name	Mageshwaran M
Team Id	PNT2022TMID44997
Roll number	811219205009

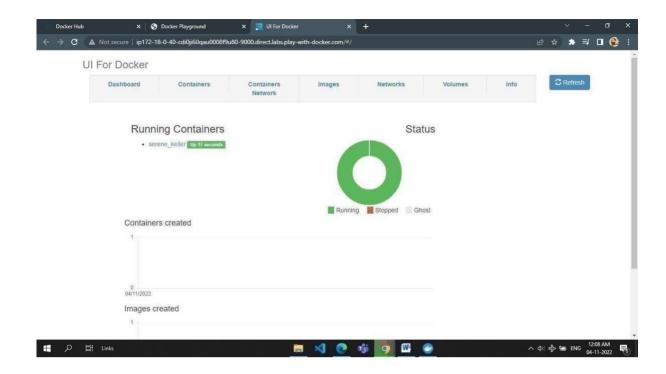
1: Pull an image from docker hub and run it on docker playground.

Solution 1:

docker pull uifd/ui-for-docker

docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for- docker

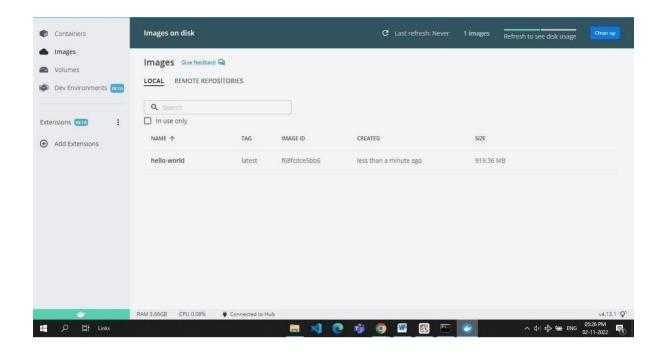




2: Create a docker file for the job portal app or hello world app and deploy it in docker desktop app. Solution 2:

Docker file

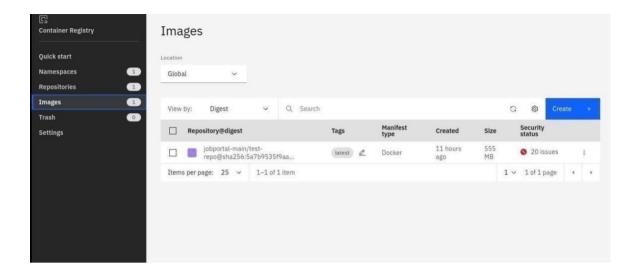
```
Dockerfile - Notepad
File Edit Format View Help
FROM python:3.8
WORKDIR /app
ADD . /app
COPY requirements.txt /app
RUN python3 -m pip install -r requirements.txt
EXPOSE 5000
CMD ["python", "app.py"]
```



3:Create an IBM container registry and deploy helloworld app or job portal app.

Solution 3:

My image link: au.icr.io/hello-world-app/hello-world



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

```
Solution 4: apiVersion: v1
kind:
Service metadata: name: helloworld-
  deployment spec: ports:
     - port:
     5000 targetPort:
  5000 selector: app:
  hello-world ---
  apiVersion: apps/v1
  kind: Deployment
  metadata:
            name:
  hello-world-
  deployment spec:
    replic as: 1 select or:
       matchLabels: app: helloworld
     template: meta da ta
       : la be ls : app:
       hello- world
       spec: containers:
          - name: hello-world image:
            au.icr.io/helloworldapp/helloworld
            imagePullPolicy: Always ports:
          - containerPort: 5000
```

