# ASSIGNMENT -4 : DOCKER DESKTOP (Kubernet)

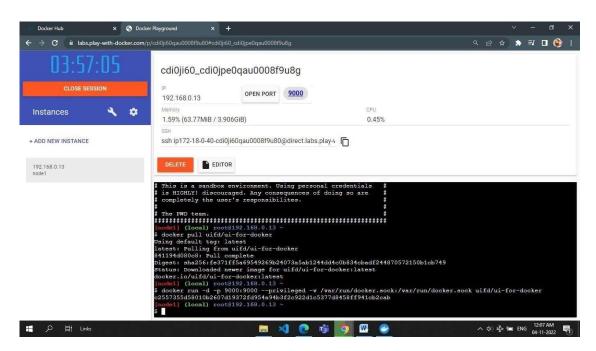
# Question 1:

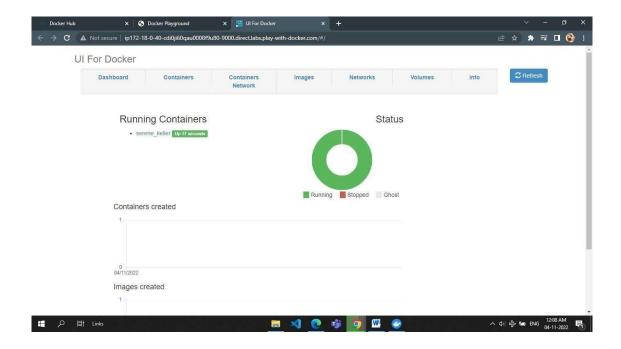
Pull an image from docker hub and run it on docker playground.

#### **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



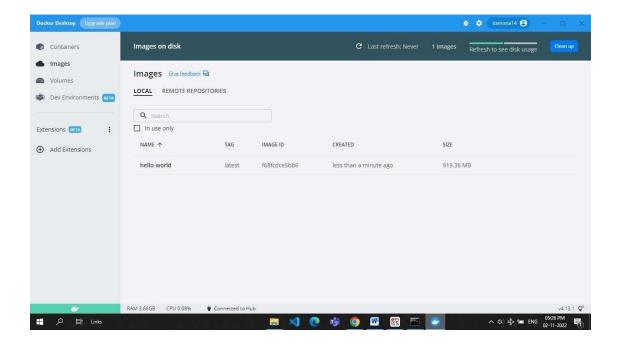


# Question 2:

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"]
```

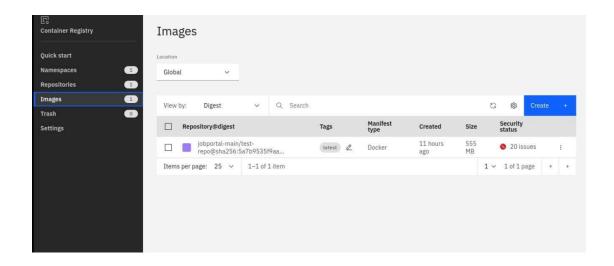


# Question 3:

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



# Question 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: hello-world-
  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
       matchLabels:
         app: helloworld
     template:
       meta
         da
         ta
         la
         be
         ls
           app: hello-
       world spec:
         containers:
          - name: hello-world image: au.icr.io/hello-world-
            app/helloworld imagePullPolicy: Always ports:
          - containerPort: 5000
```

