ASSIGNMENT -4: DOCKER DESKTOP (Kubernet)

Assignment date	04 November 2022
Team Id	PNT2022TMID51975
Maximum Marks	2 Marks

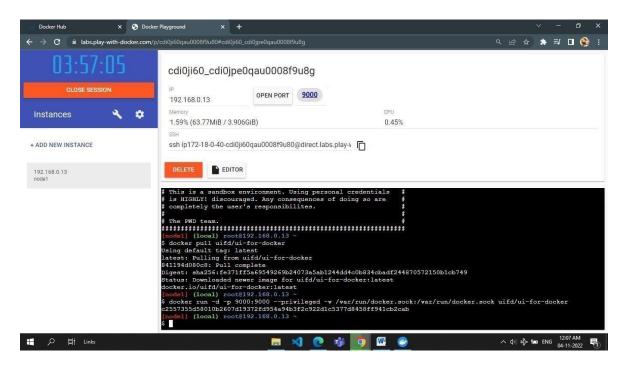
Question 1:

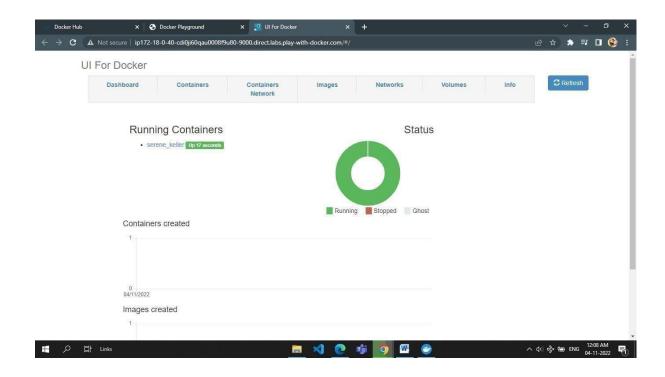
Pull an image from docker hub and run it on docker playground.

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



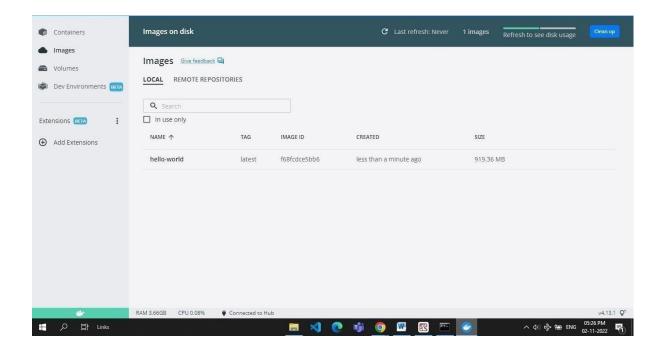


Question 2:

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"]
```

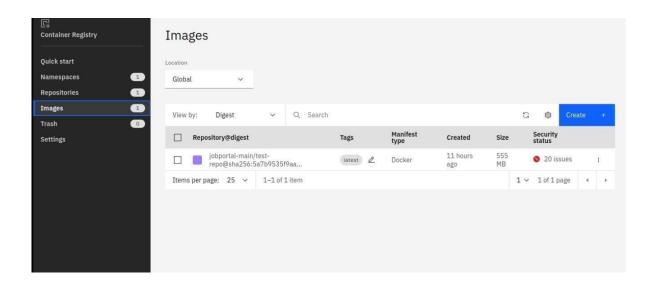


Question 3:

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
           app: hello-
       world spec:
         containers:
          - name: hello-world image: au.icr.io/hello-worldapp/helloworld
            imagePullPolicy: Always ports:
          - containerPort: 5000
```

