ASSIGNMENT - 4 : DOCKER DESKTOP (Kubernetes)

| Assignment date | 18 November 2022 |
|-----------------|------------------|
| Team Id | PNT2022TMID04044 |
| Maximum Marks | 2 Marks |

Question 1:

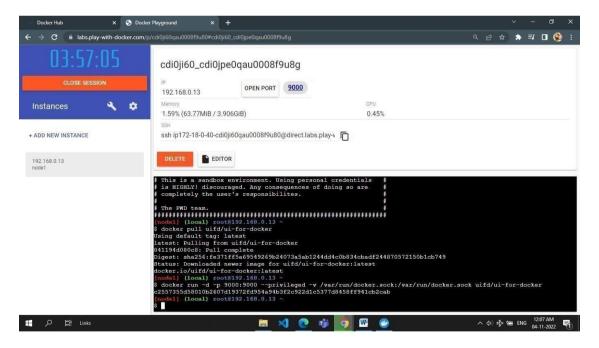
Pull an image from docker hub and run it on docker playground.

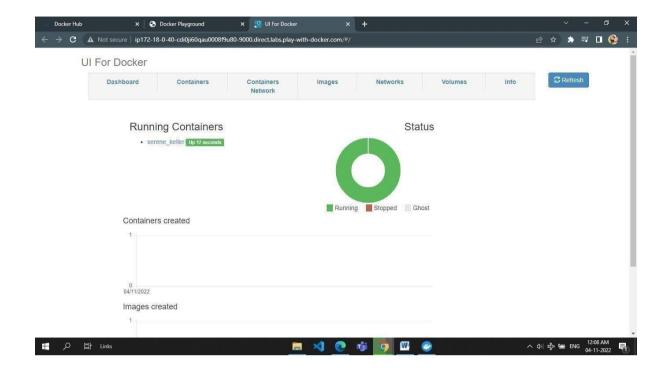
Solution 1:

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



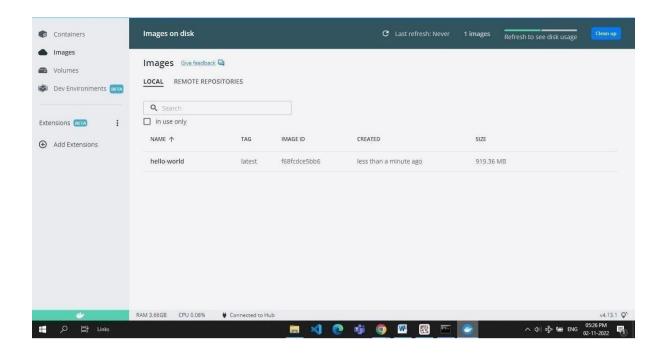


Question 2:

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

Docker file

```
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"]
```

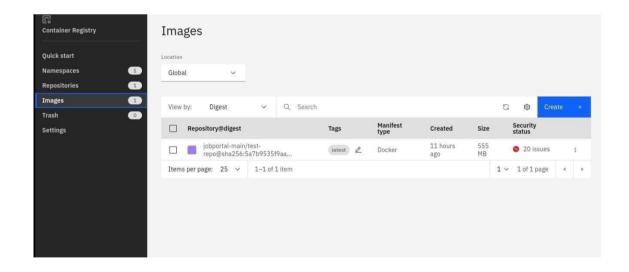


Question 3:

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

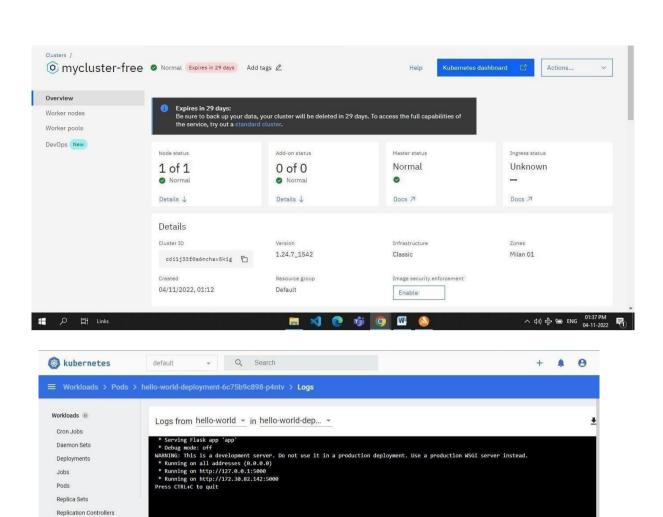


Question 4:

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
    or:
       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
```



Stateful Sets

Service

Ingresses (N)
Ingress Classes
Services (N)
Config and Storage

Config and Storage

Logs from Nov. 4, 2022 to Nov. 4, 2022 UTC

Logs from Nov. 6, 2022 to Nov. 4, 2022 UTC

Logs from Nov. 6, 2022 to Nov. 4, 2022 UTC

Logs from Nov. 6, 2022 to Nov. 6, 2022 UTC

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