## **ASSIGNMENT 4**

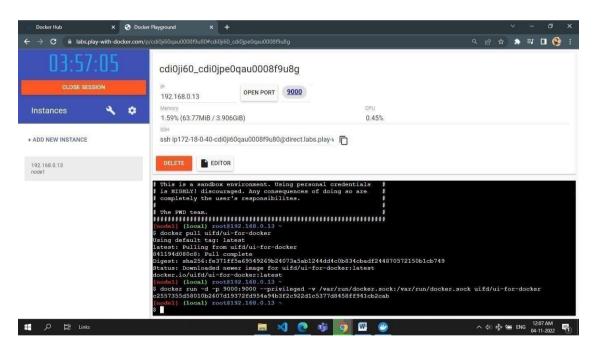
Student Name	SURYA A
Student Roll Number	811219205017
Team ID	PNT2022TMID45009

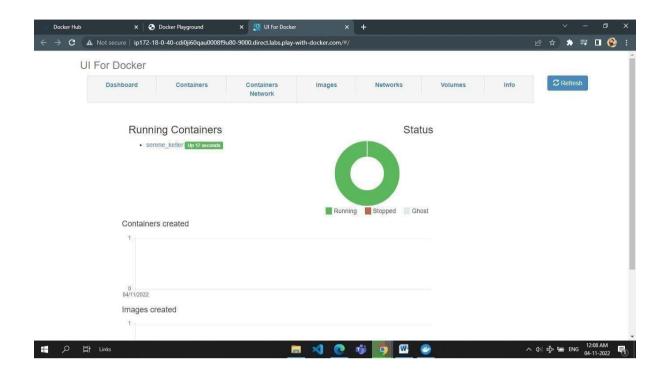
## 1. Pull an image from docker hub and run it on docker playground.

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

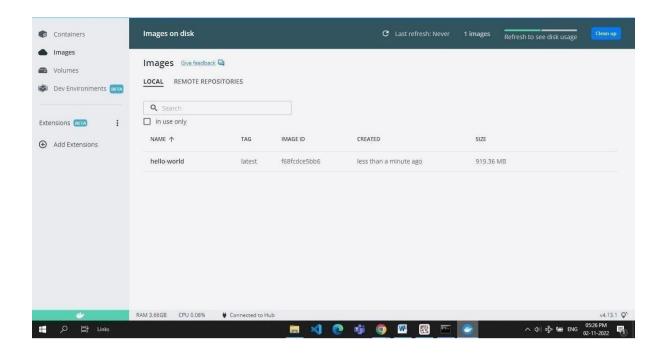




2. Create a docker file for the job portal app or hello world app and deploy it in docker desktop app.

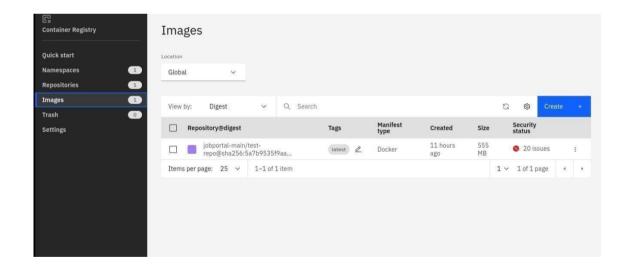
## Docker file

```
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"]
```



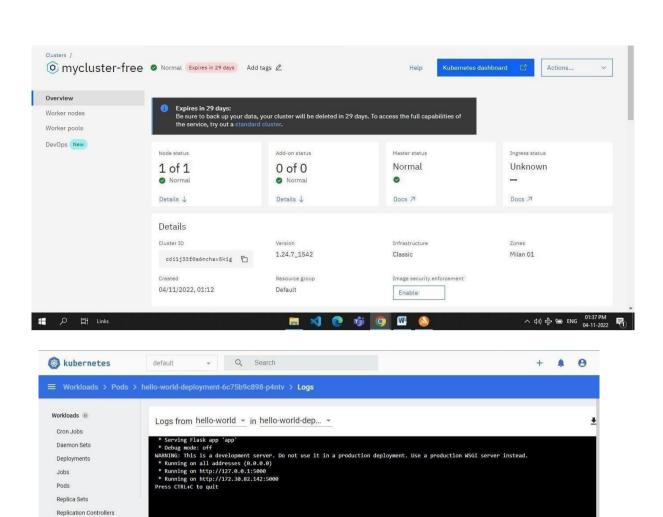
## 3. Create an IBM container registry and deploy hello world app or job portal app.

Image link: au.icr.io/hello-world-app/hello-world



4. Create a kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in nodeport.

```
apiVersion: v1 kind:
Service metadata:
      name: hello-world-
  deployment spec:
      ports: - port:
      5000 targetPort:
  5000 selector: app:
  hello-world ---
  apiVersion: apps/v1kind:
  Deployment metadata:
  name:
  hello-world- deployment
  spec:
      replic as: 1 selector:
         matchLabels: app:
           helloworld
      template:
         meta data
         la be
         ls:
                       hello-
              app:
         world spec:
            containers:
             - name: hello-world image: au.icr.io/hello-worldapp/helloworldimagePullPolicy:
                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

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

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

Logs from Nov. 6,