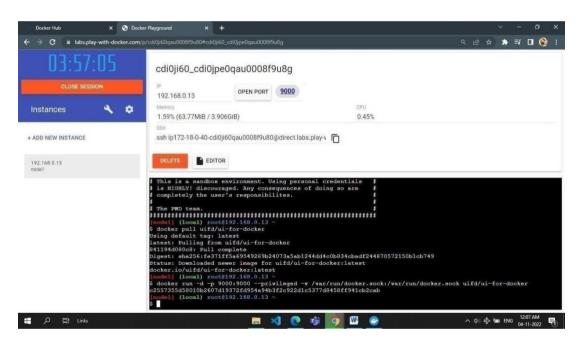
ASSIGNMENT 4

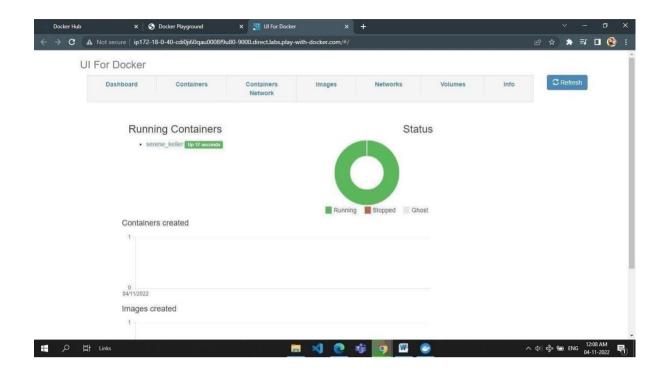
Student Name	RANJITH KUMAR A
Student Roll Number	811219205012
Team ID	PNT2022TMID45009

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

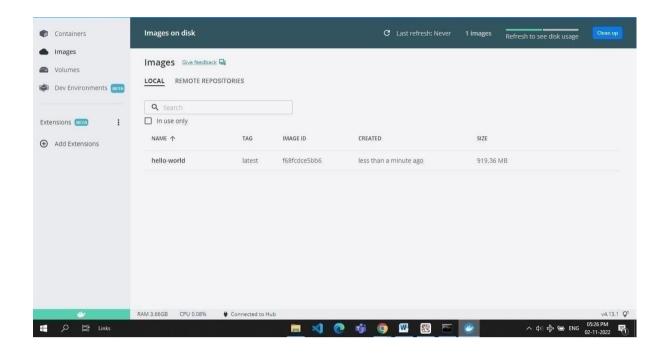




2. Create a docker file for the job portal app or hello world app and deploy it in docker desktop app.

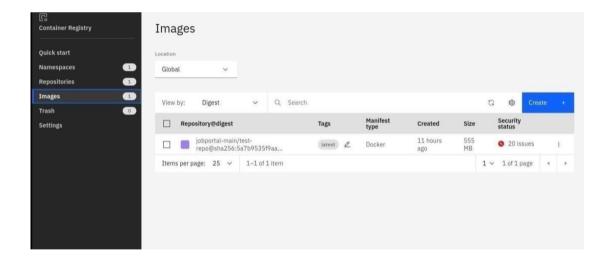
Docker file

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

