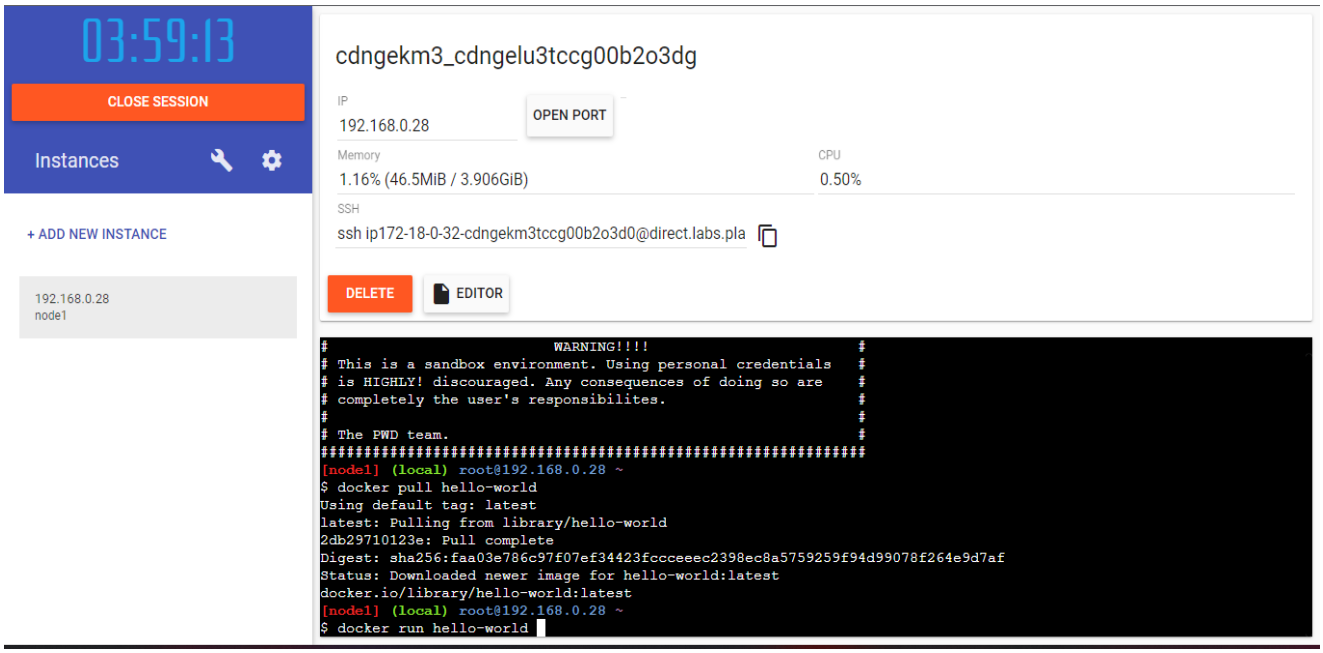
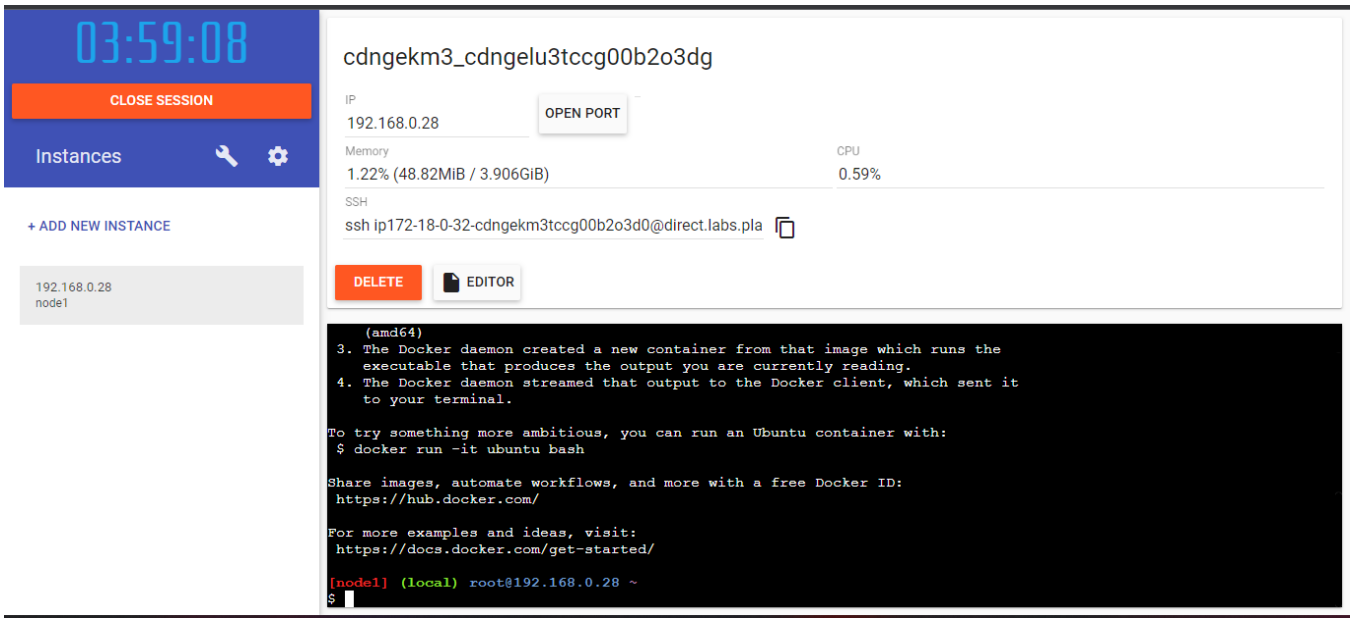
ASSIGNMENT 4

Question 1:

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

docker pull hello-world

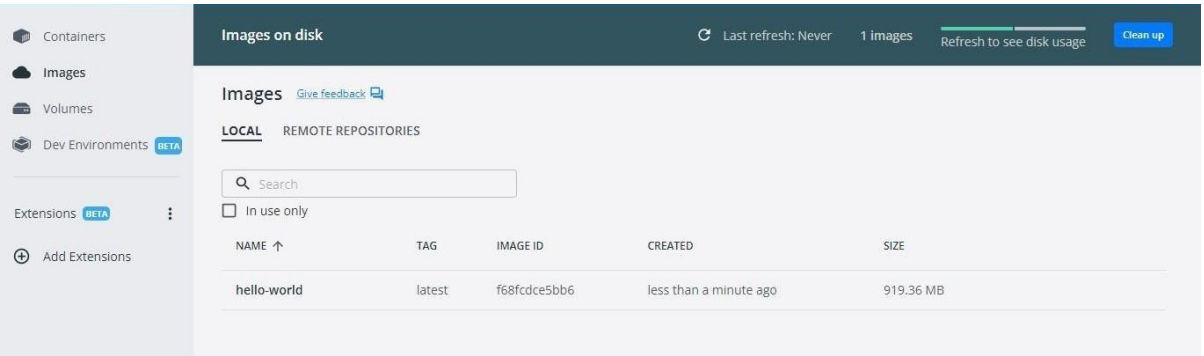




Question 2:

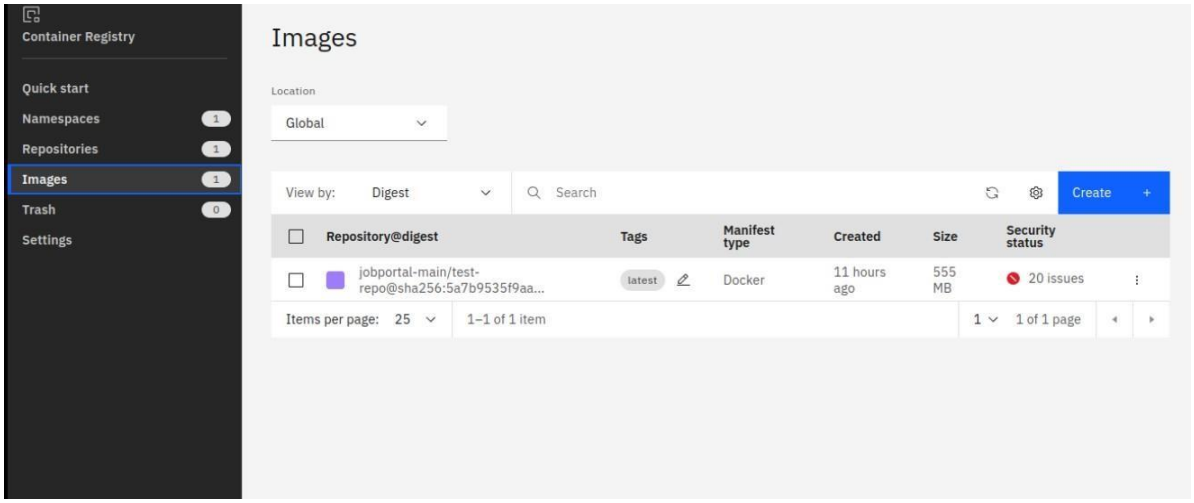
Create a docker file for the job portal app or hello world app and deploy it in docker desktop app.

```
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 hello world app or job portal app.

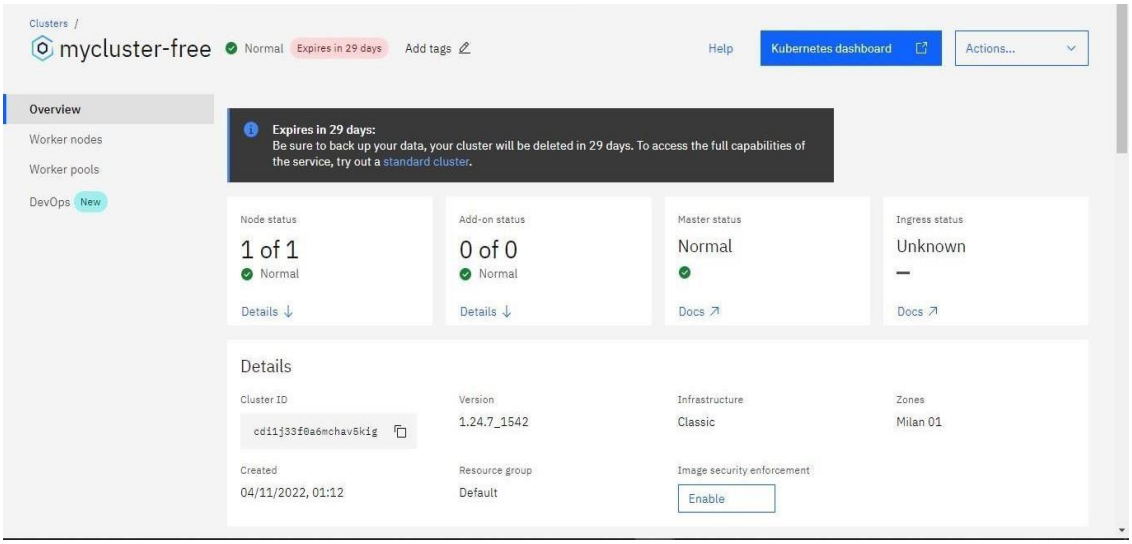


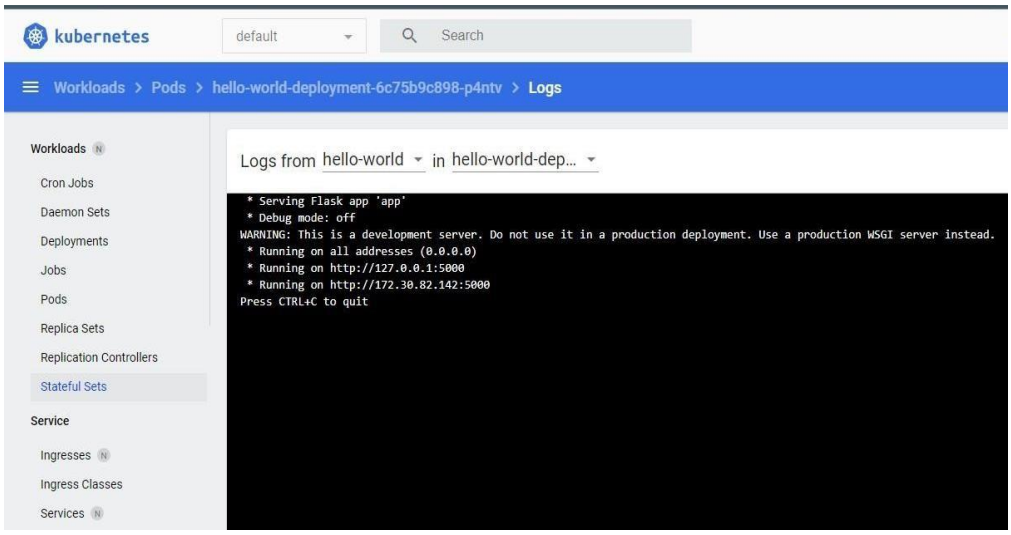
Question 4:

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 node port.

apiVersion:
v1kind:
Service
metadata:
name: hello-world-
deploymentspec: ports:
- port: 5000 targetPort:
5000selector: app:
hello-world
---
apiVersion:
apps/v1kind:

Deployment metadata:
name: hello-world-
deploymentspec:
replic as: 1
select or:
matchLabels: app:
hello-
worldtemplate:
meta
da
ta
:
la
be
ls
:
app: hello-
worldspec:
containers:
- name: hello-world image: au.icr.io/hello-world-app/hello-
worldimagePullPolicy: Always ports:
- containerPort: 5000




kubernetes
default
Search
Workloads > Pods > hello-world-deployment-6c75b9c898-p4ntv > Logs
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Ingress Classes
Services
Logs from hello-world in hello-world-dep...
* Serving Flask app 'app'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://172.30.82.142:5000
Press CTRL+C to quit