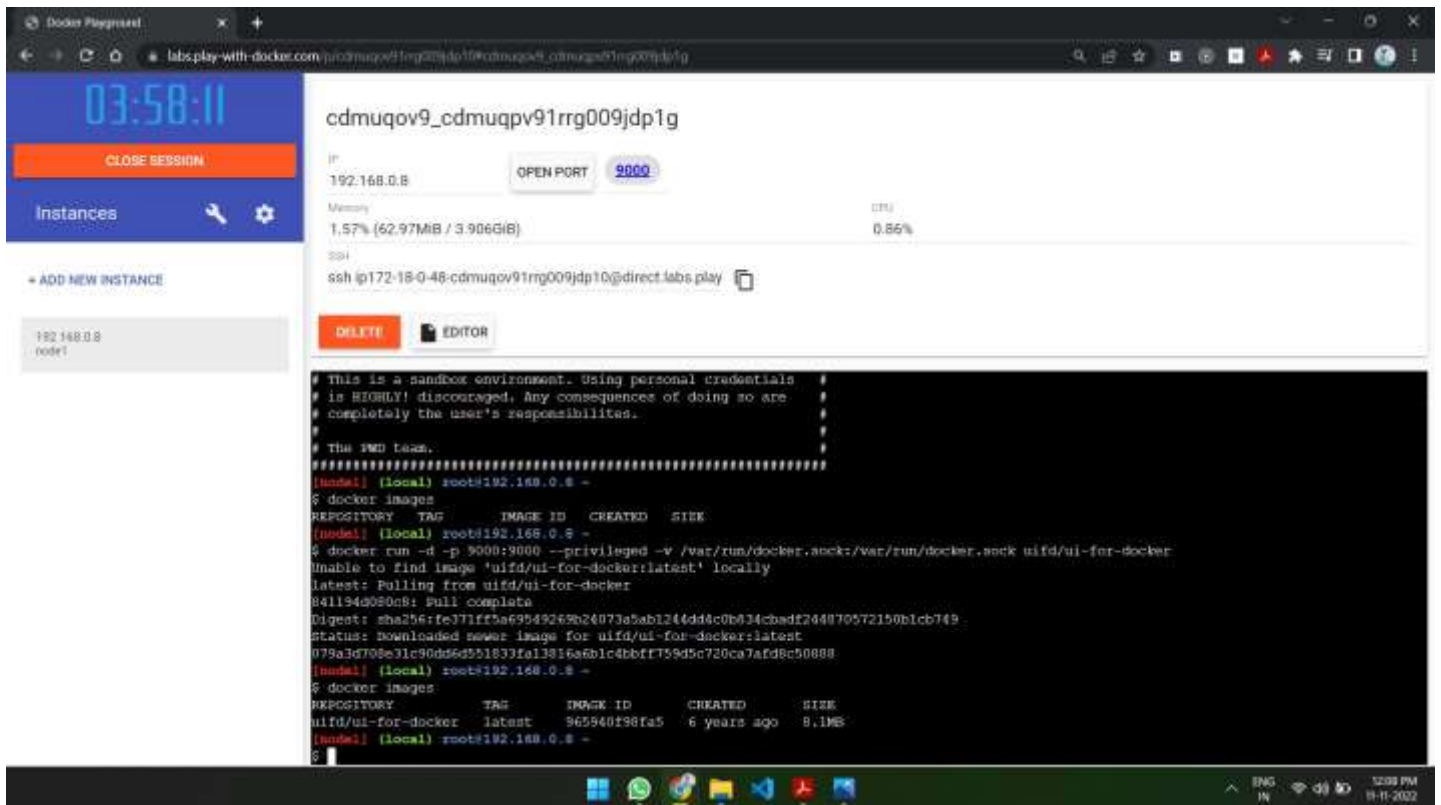


## Assignment - 4

Student Name	Santhosh R
Student Roll Number	73771914165
Team ID	PNT2022TMID11718

1. Pull an Image from docker hub and run it in docker playground.



2. Create a docker file for the jobportal application and deploy it in Docker desktop application.

### CODE

FROM ubuntu/apache2

FROM python

COPY ./requirements.txt /flaskApp/requirements.txt

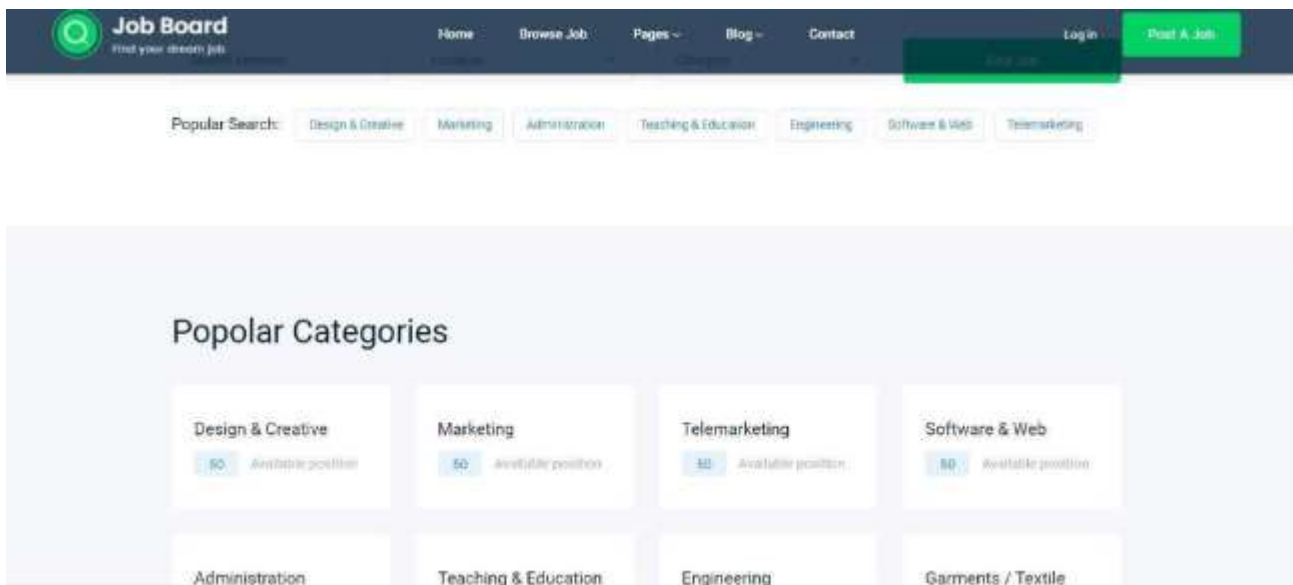
WORKDIR /flaskApp

RUN pip install -r requirements.txt

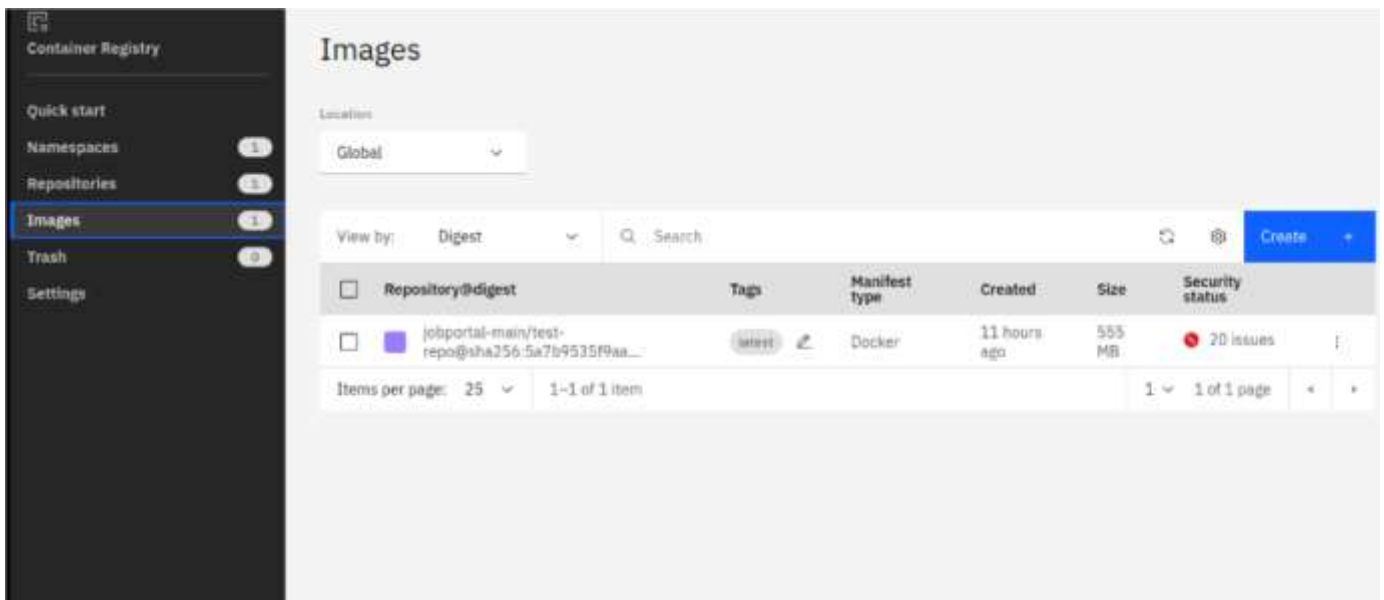
COPY . /flaskApp

ENTRYPOINT [ "python" ]

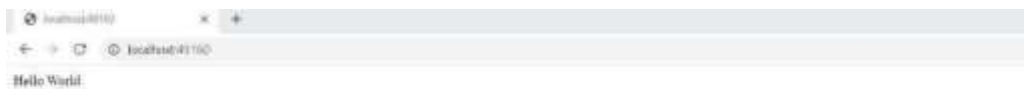
CMD ["app.py" ]



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



OUTPUT: “HELLO  
WORLD”



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.

CODE:

apiVersion: v1 kind:

Service metadata:

name: job-portal-app

spec: selector: app:

job-portal-app ports:

- port: 5000 type:

NodePort

---

apiVersion: apps/v1 kind:

Deployment metadata:

name: job-portal-app labels:

app: job-portal-app spec:

selector: matchLabels: app:

job-portal-app

replicas: 1

template:

metadata: labels: app:

job-portal-app

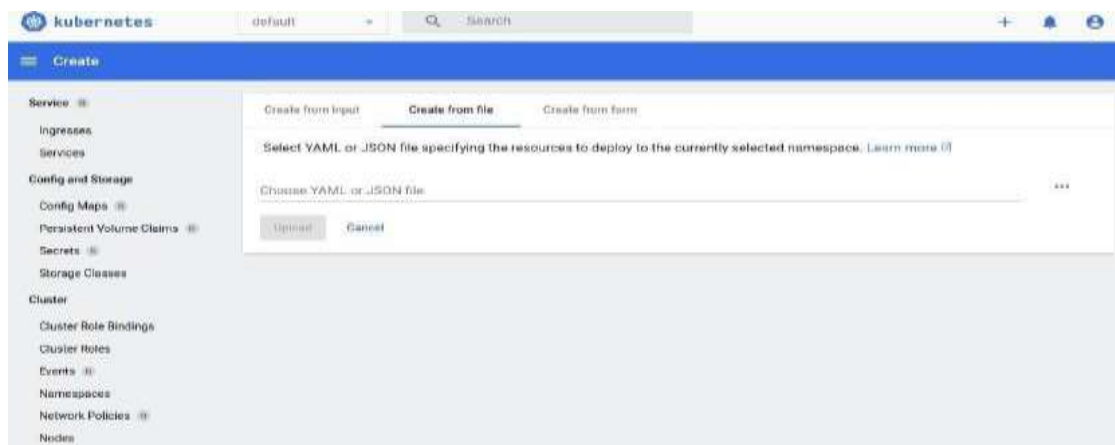
spec: containers:

- name: job-portal-app image: image\_name ports:

- containerPort: 5000 env:

- name:

DISABLE\_WEB\_APPvalue: "false"



Kubernetes clusters						
Resource group: Filter...		Location: Filter...		Search	Create cluster +	
Name	State	Location	Worker count	Created	Version	Infrastructure
jaga-cluster	Normal	Amsterdam 03	1	Expires in 30 days	1.23.12_1546	Classic
Items per page: 25		1-1 of 1 item		1	1 of 1 page	