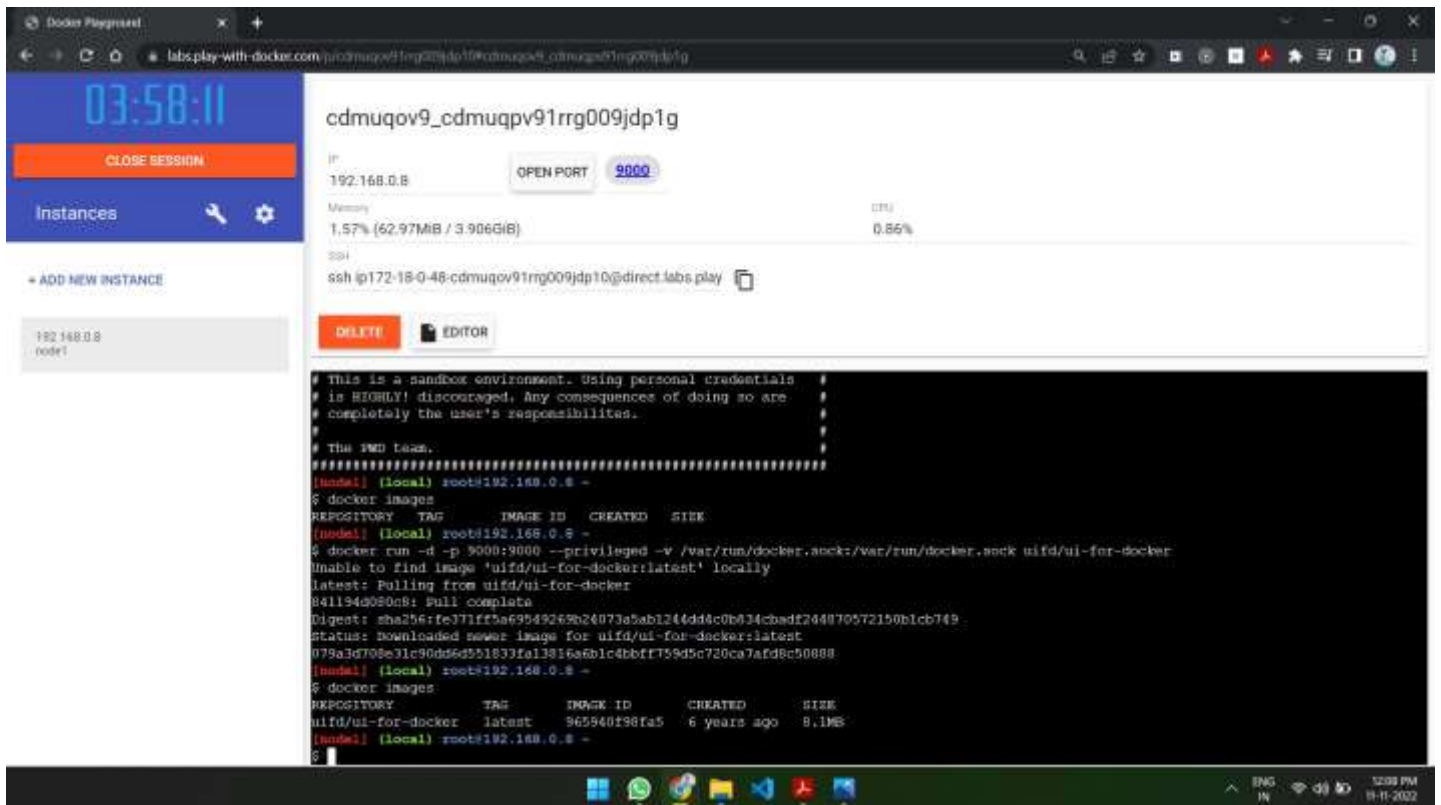


## Assignment - 4

|                     |                  |
|---------------------|------------------|
| Student Name        | Yogesh S         |
| Student Roll Number | 73771914194      |
| 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

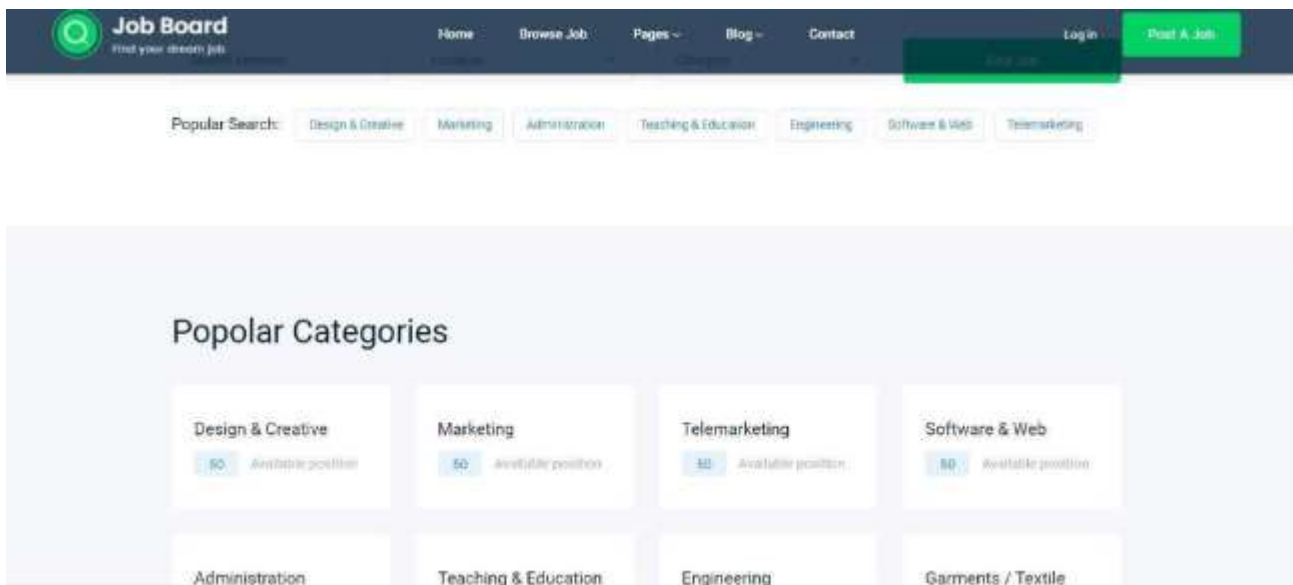
WORKDIR /flaskApp

RUN pip install -r requirements.txt

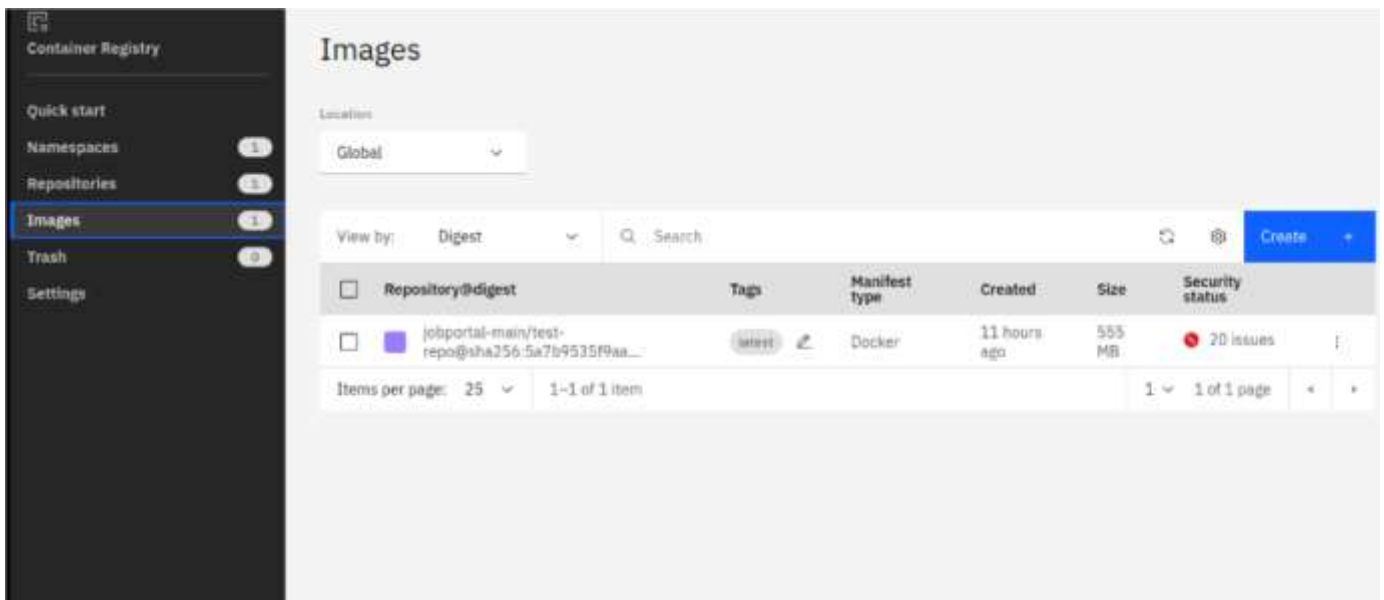
COPY . /flaskApp

ENTRYPOINT [ "python" ]

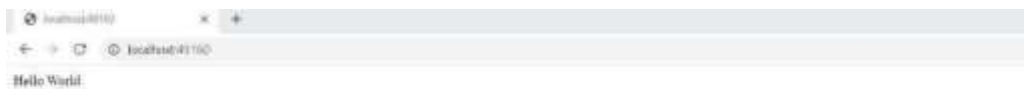
CMD ["app.py" ]



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

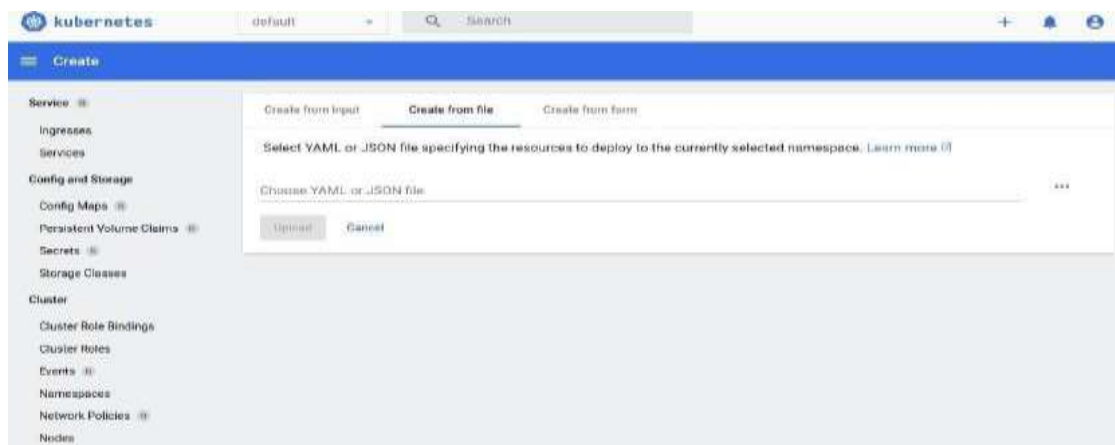
spec: containers:

- 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      |                |