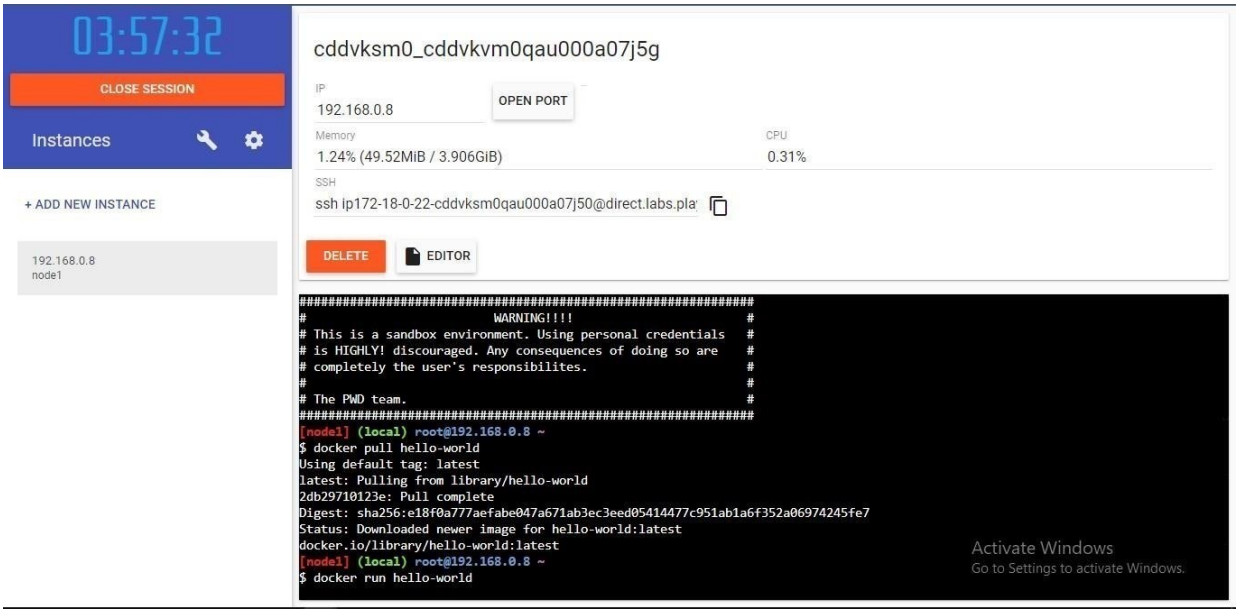
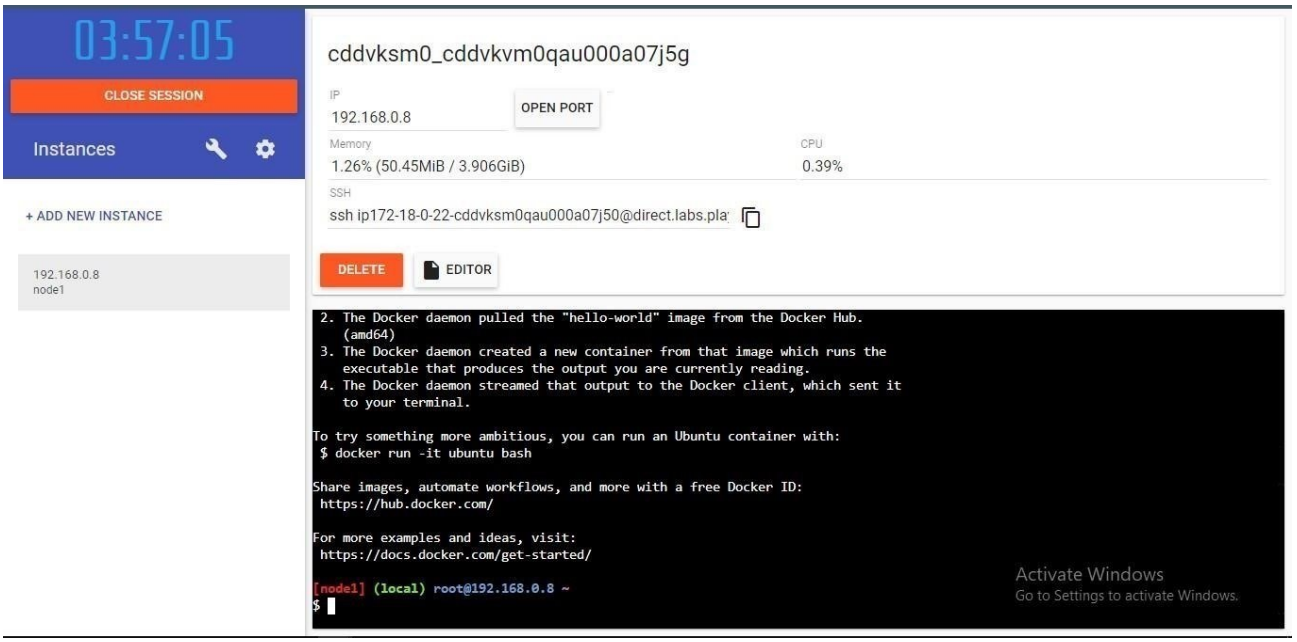
Assignment - 4

Assignment Date	10 November 2022
Student Name	Sarath A
Student Roll Number	721419104043
Maximum Marks	2 Marks

Question 1:

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

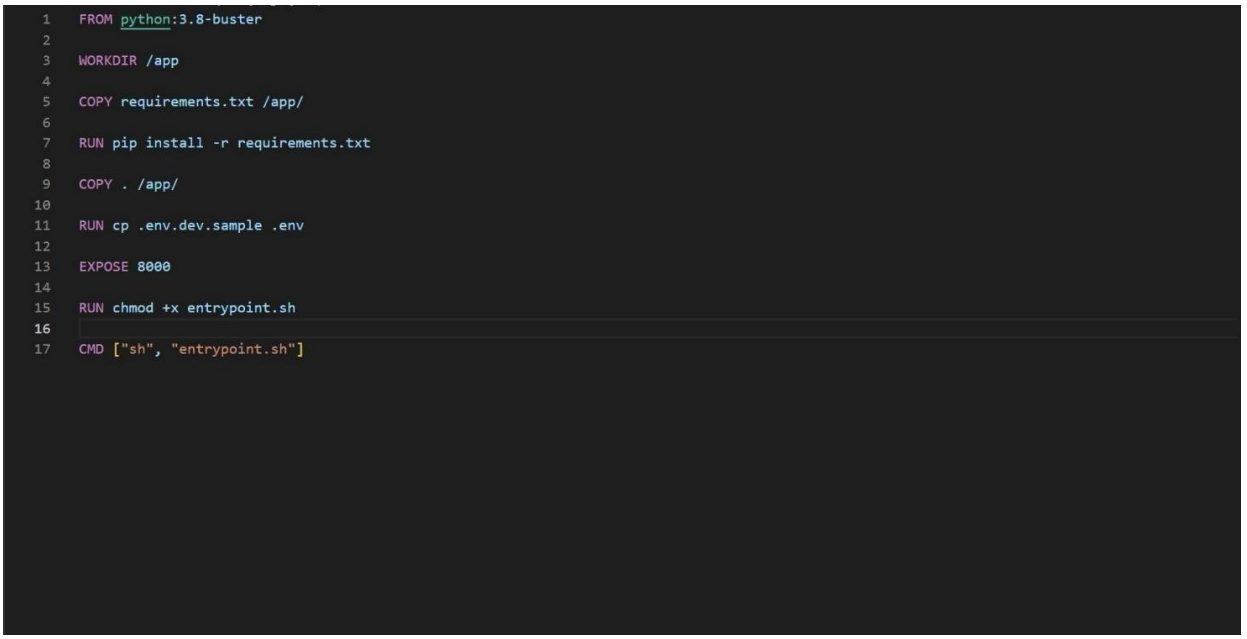




Question 2:

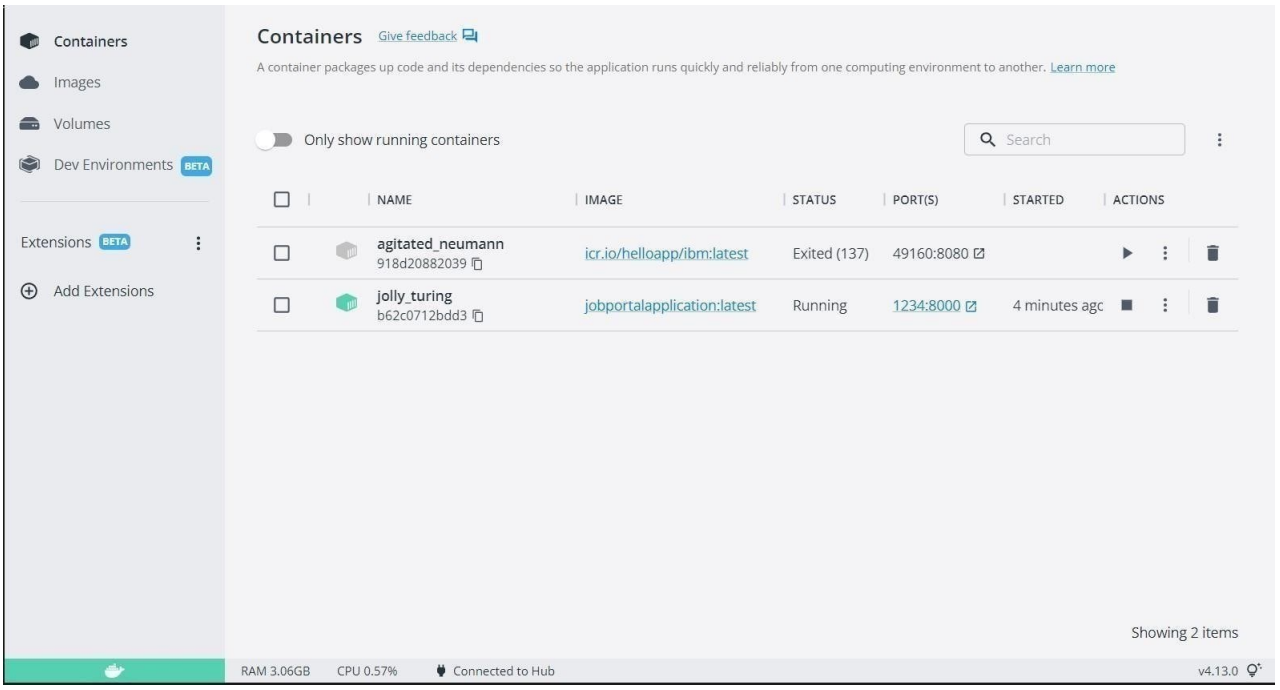
Create a docker file for the job portal application and deploy it in Docker desktop application.

DOCKER FILE:

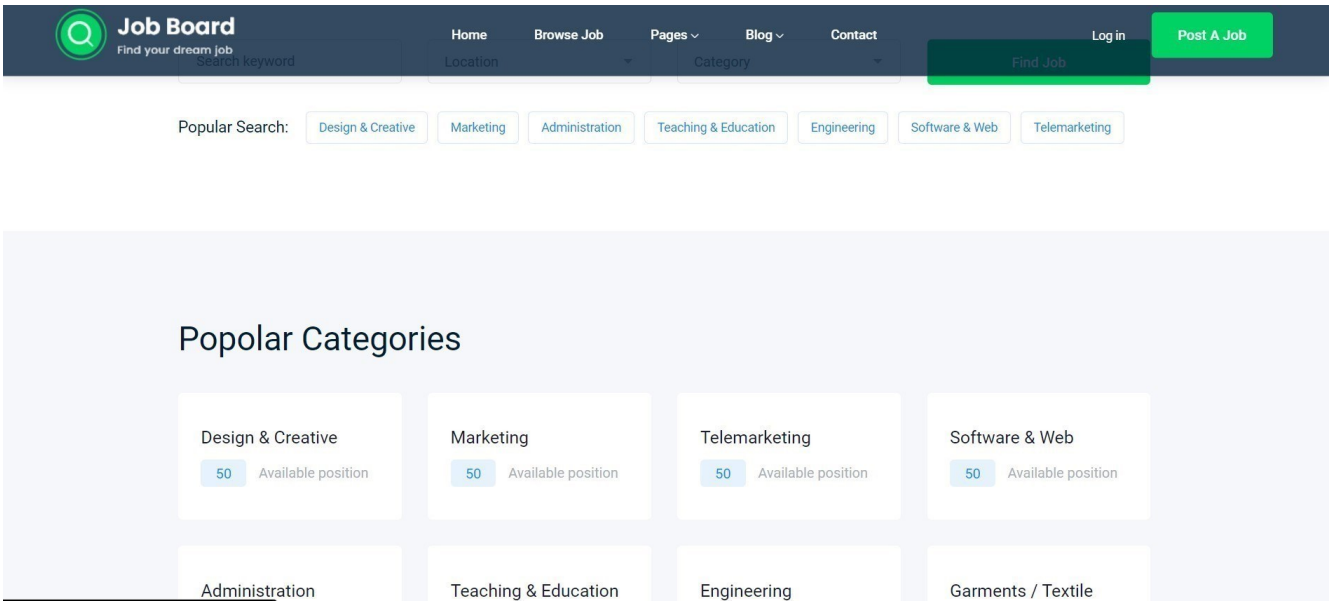


```
FROM python:3.8-buster

WORKDIR /app

COPY requirements.txt /app/

RUN pip install -r requirements.txt

COPY . /app/

RUN cp .env.dev.sample .env

EXPOSE 8000

RUN chmod +x entrypoint.sh

CMD ["sh", "entrypoint.sh"]
```

DEPLOYMENT OF JOBPORTAL APPLICATION:


Containers
Images
Volumes
Dev Environments BETA
Extensions BETA
Add Extensions
Containers
Give feedback
A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more
Only show running containers
Search
NAME
IMAGE
STATUS
PORT(S)
STARTED
ACTIONS
agitated_neumann
918d20882039
icr.io/helloapp/ibm:latest
Exited (137)
49160:8080
jolly_turing
b62c0712bdd3
jobportalapplication:latest
Running
1234:8000
4 minutes ago
Showing 2 items
RAM 3.06GB
CPU 0.57%
Connected to Hub
v4.13.0

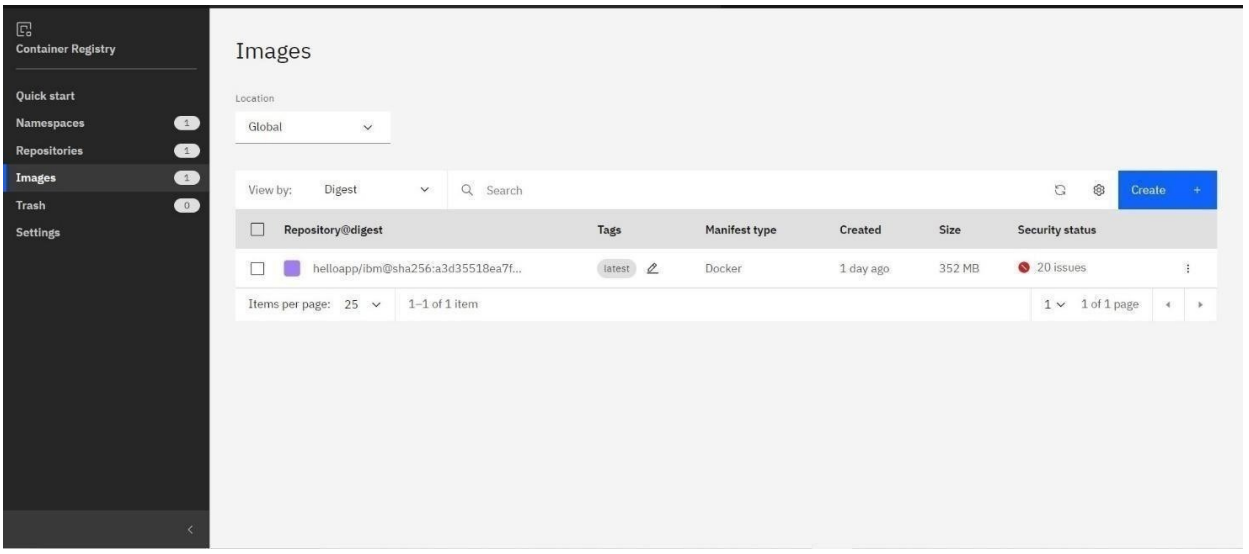
OUTPUT:


Job Board
Find your dream job
Home
Browse Job
Pages
Blog
Contact
Log in
Post A Job
Search keyword
Location
Category
Find Job
Popular Search:
Design & Creative
Marketing
Administration
Teaching & Education
Engineering
Software & Web
Telemarketing
Popolar Categories
Design & Creative
50
Available position
Marketing
50
Available position
Telemarketing
50
Available position
Software & Web
50
Available position
Administration
Teaching & Education
Engineering
Garments / Textile

Question 3:

Create a IBM container registry and deploy hello-world app or job port app. IBM CONTAINER

REGISTRY DEPLOYMENT:

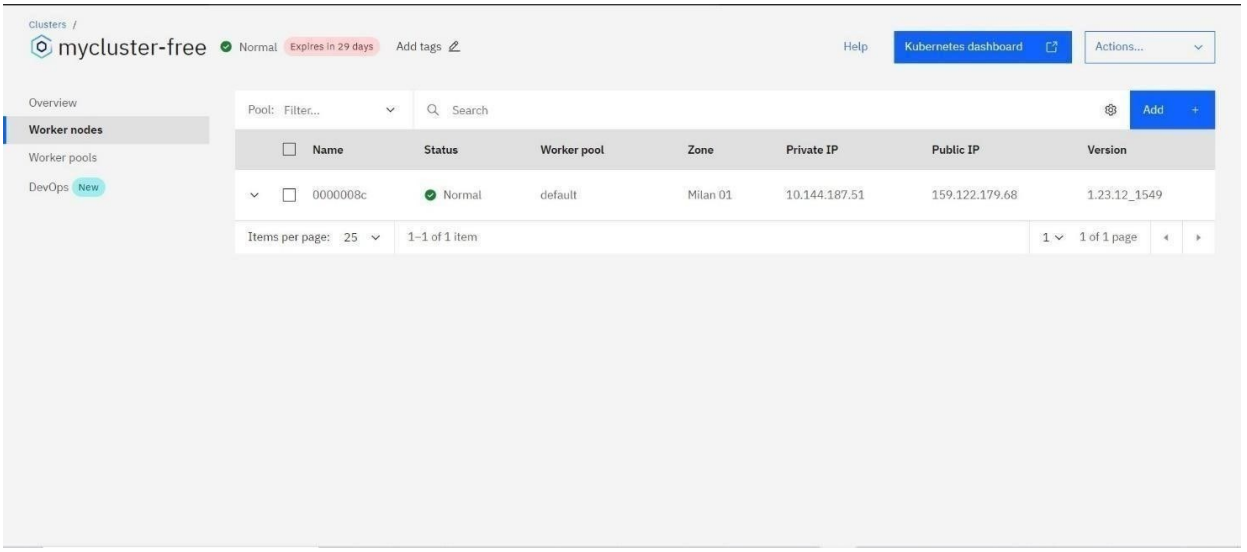


OUTPUT:

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.

Creating Kubernetes cluster in IBM cloud and exposing node port:



Output: