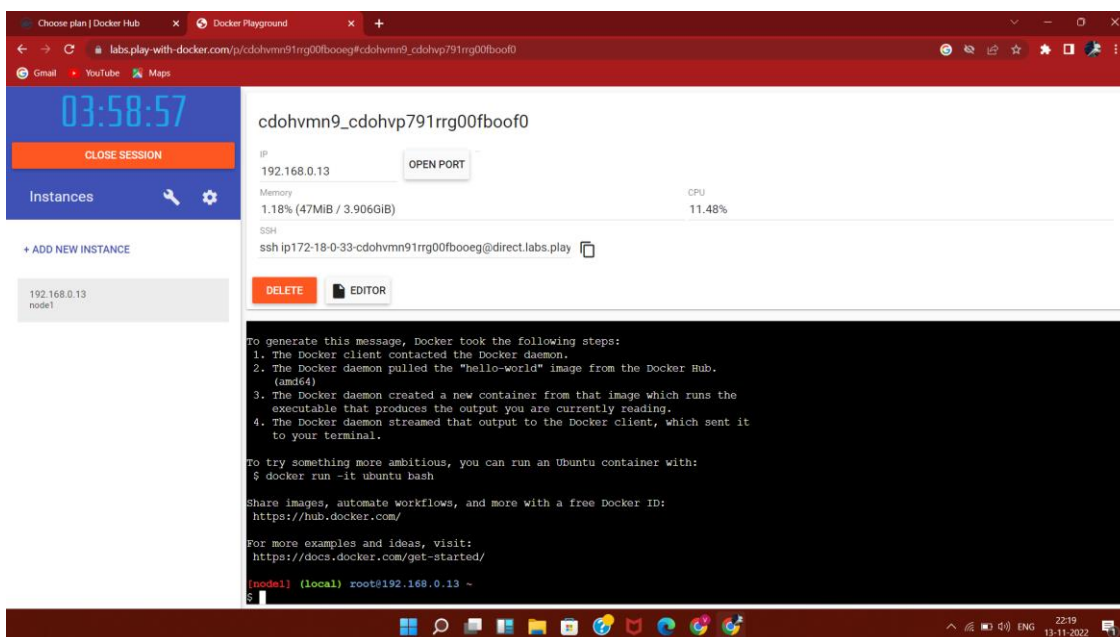
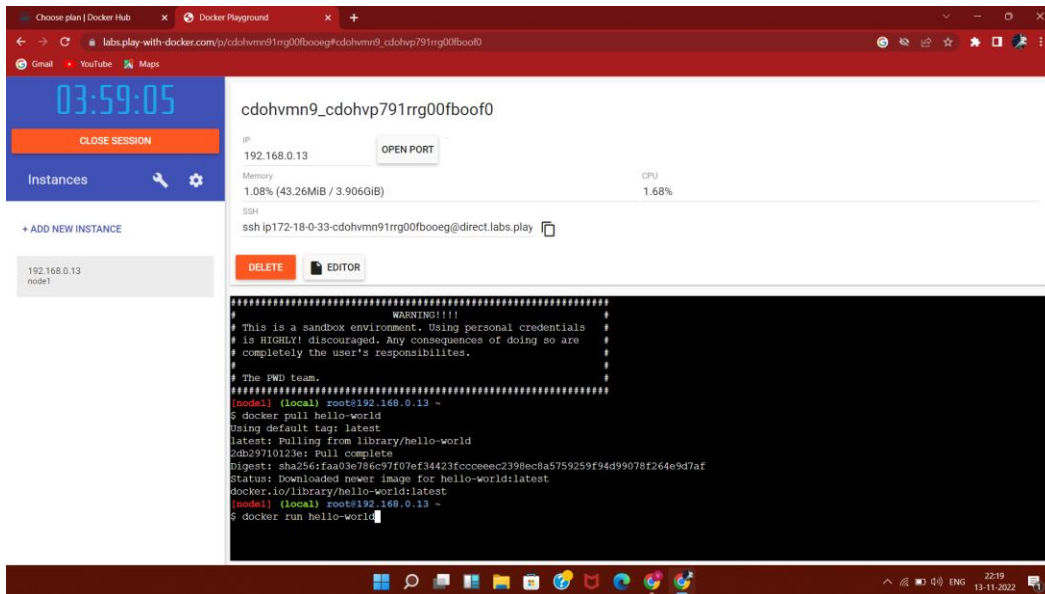


Assignment- 4

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:

```
1 FROM python:3.8-buster
2
3 WORKDIR /app
4
5 COPY requirements.txt /app/
6
7 RUN pip install -r requirements.txt
8
9 COPY . /app/
10
11 RUN cp .env.dev.sample .env
12
13 EXPOSE 8000
14
15 RUN chmod +x entrypoint.sh
16
17 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
<input type="checkbox"/>	<div>agitated_neumann</div> <div>918d20882039</div>	icr.io/helloapp/ibm:latest	Exited (137)	49160:8080		▶ ⋮ 🗑
<input type="checkbox"/>	<div>jolly_turing</div> <div>b62c0712bdd3</div>	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

Search keyword

Find Job

Home

Browse Job

Pages

Blog

Contact

Log in

Post A Job

Location

Category

Popular Search:

Design & Creative

Marketing

Administration

Teaching & Education

Engineering

Software & Web

Telemarketing

Popular Categories

Design & Creative

50 Available position

Marketing

50 Available position

Telemarketing

50 Available position

Software & Web

50 Available position

Administration

Teaching & Education

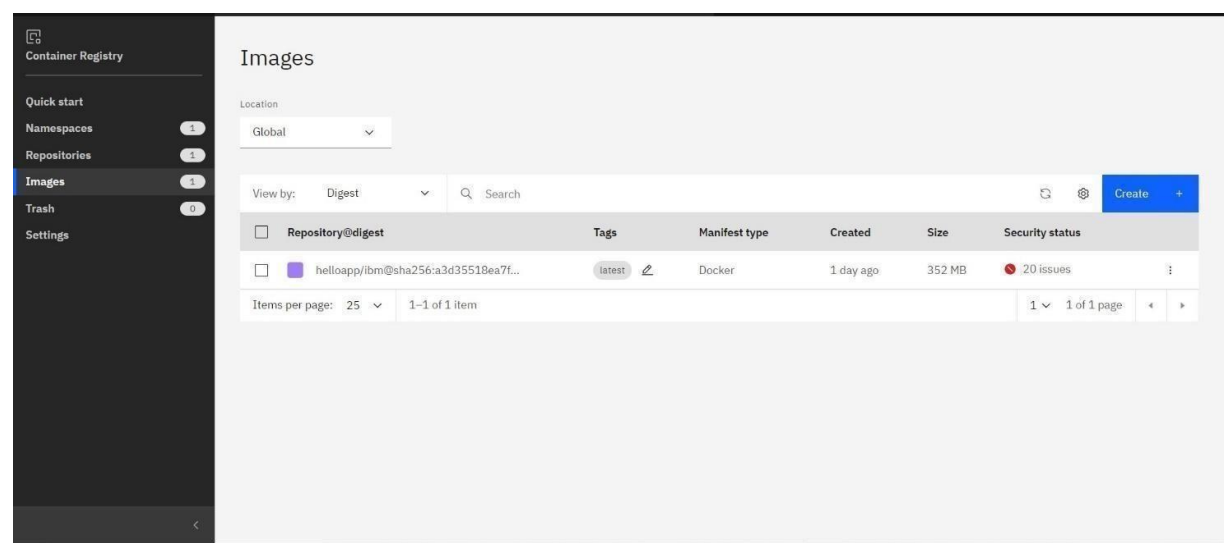
Engineering

Garments / Textile

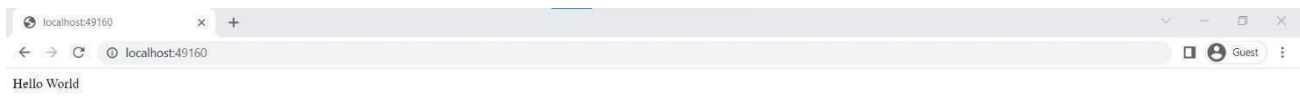
Question 3:

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:

The screenshot shows the IBM Cloud MyCluster-Free dashboard. The cluster is named 'mycluster-free' and is in a 'Normal' state, expiring in 29 days. It has a 'Kubernetes dashboard' link and an 'Actions...' menu. The 'Worker nodes' tab is selected, showing a table with one node.

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
0000008c	Normal	default	Milan 01	10.144.187.51	159.122.179.68	1.23.12_1549

Items per page: 25 | 1-1 of 1 item | 1 of 1 page

Output:

The screenshot shows a VS Code editor with a file named 'jobportal.html'. The code is HTML, featuring a navigation bar with a 'Login Page' link, a main content area with a 'Find your dream job by using this Job portal.' message, and a list of job opportunities. The jobs listed are: Software Engineer, Front-End Developer, Special title treatment, Java Developer, Business Analyst, Python Developer, Back-End Developer, and Product Manager. Each job entry includes a brief description and a 'Submit' button. The browser preview on the right shows the rendered output of this HTML code, displaying the job portal interface.