

ASSIGNMENT-4

ASSIGNMENT DATE	5 th NOVEMBER
STUDENT NAME	KAVYA.K
TEAM ID	PNT2022PMID25938
TEAM NAME	DAREDEVILS
MARKS	2 marks

Question 1:

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

The screenshot shows the Docker Playground interface in a web browser. The left sidebar has a timer at 03:56:54, a 'CLOSE SESSION' button, and an 'Instances' section with a list containing '192.168.0.8 node1'. The main area displays the instance 'cdmgq9e3_cdmgqv91rrg009jd1pg' with its IP (192.168.0.8), memory usage (1.24%), CPU usage (0.15%), and an SSH command. Below this, a terminal window shows the following commands and output:

```
##### WARNING!!!! #####
# This is a sandbox environment. Using personal credentials #
# is HIGHLY! discouraged. Any consequences of doing so are #
# completely the user's responsibilities. #
# #
# The FWD team. #
#####
[node1] (local) root@192.168.0.8 ~
$ docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:faa03e786c97f07ef34423fccceec2398ec8a5759259f94d99078f264e9d7af
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
[node1] (local) root@192.168.0.8 ~
```

The screenshot shows the Docker Playground interface with the timer at 03:56:28. The instance 'cdmgq9e3_cdmgqv91rrg009jd1pg' is shown with its IP (192.168.0.8), memory usage (1.24%), and CPU usage (0.21%). The terminal window displays the following commands and output:

```
docker.io/library/hello-world:latest
[node1] (local) root@192.168.0.8 ~
$ docker run hello-world

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
   (amd64)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
```

03:56:19

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.8
node1

cdmgq9e3_cdmgqv91rrg009jd1pg

IP
192.168.0.8

OPEN PORT

Memory
1.24% (49.69MiB / 3.906GiB)

CPU
0.16%

SSH
ssh ip172-18-0-55-cdmgq9e3tccg009qdelg@direct.labs.pla

DELETE

EDITOR

(amd64)

3. The Docker daemon created a new container from that image which runs the executable that produces the output you are currently reading.

4. The Docker daemon streamed that output to the Docker client, which sent it to your terminal.

To try something more ambitious, you can run an Ubuntu container with:

\$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:

<https://hub.docker.com/>

For more examples and ideas, visit:

<https://docs.docker.com/get-started/>

[node1] (local) root@192.168.0.8 ~

\$ docker pull hello-world

Windows taskbar icons: File Explorer, Edge, Firefox, VS Code, Docker Desktop, Settings

System tray: Network, Volume, ENG, 20:13, 10-11-2022

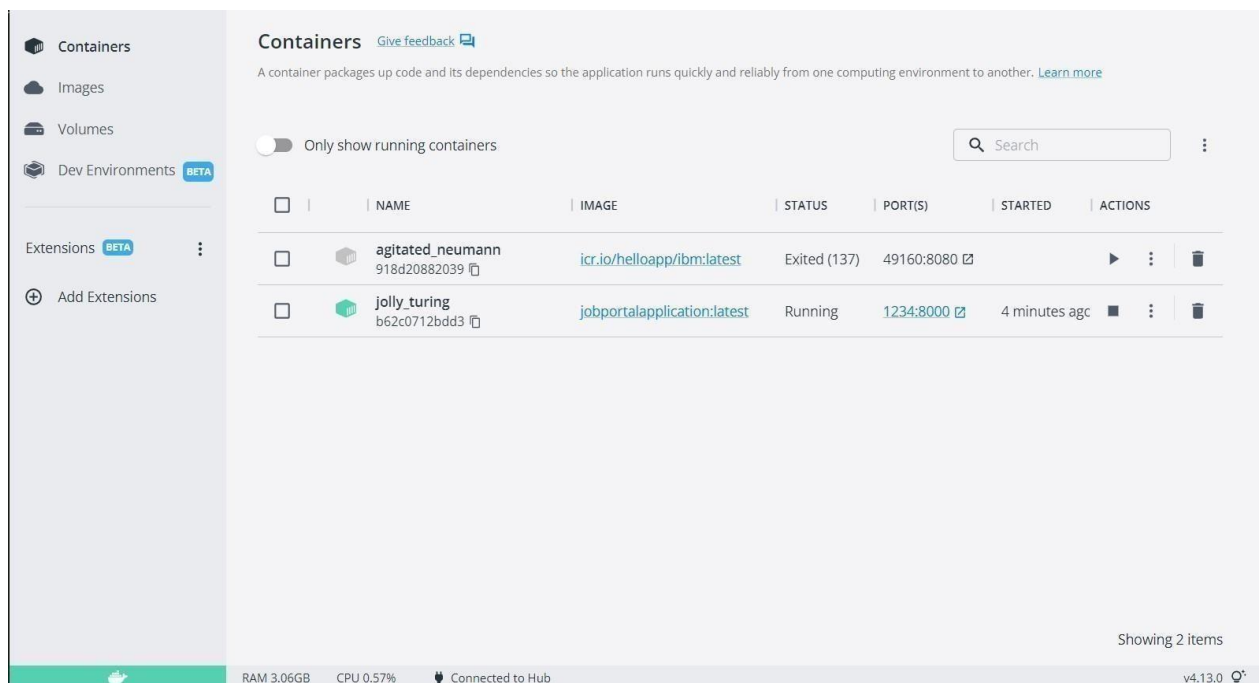
Question 2:

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




The screenshot shows the Docker Desktop interface. On the left is a sidebar with navigation options: Containers, Images, Volumes, Dev Environments (marked BETA), Extensions (marked BETA), and Add Extensions. The main area is titled 'Containers' and includes a toggle for 'Only show running containers' and a search bar. Below this is a table of containers:

	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<input type="checkbox"/>	agitated_neumann 918d20882039	icr.io/helloapp/ibm:latest	Exited (137)	49160:8080		
<input type="checkbox"/>	jolly_turing b62c0712bdd3	jobportalapplication:latest	Running	1234:8000	4 minutes ago	

At the bottom right, it says 'Showing 2 items'. The bottom status bar shows 'RAM 3.06GB', 'CPU 0.57%', 'Connected to Hub', and '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

Popular Categories

Design & Creative

50 Available position

Marketing

50 Available position

Telemarketing

50 Available position

Software & Web

50 Available position

Administration

Teaching & Education

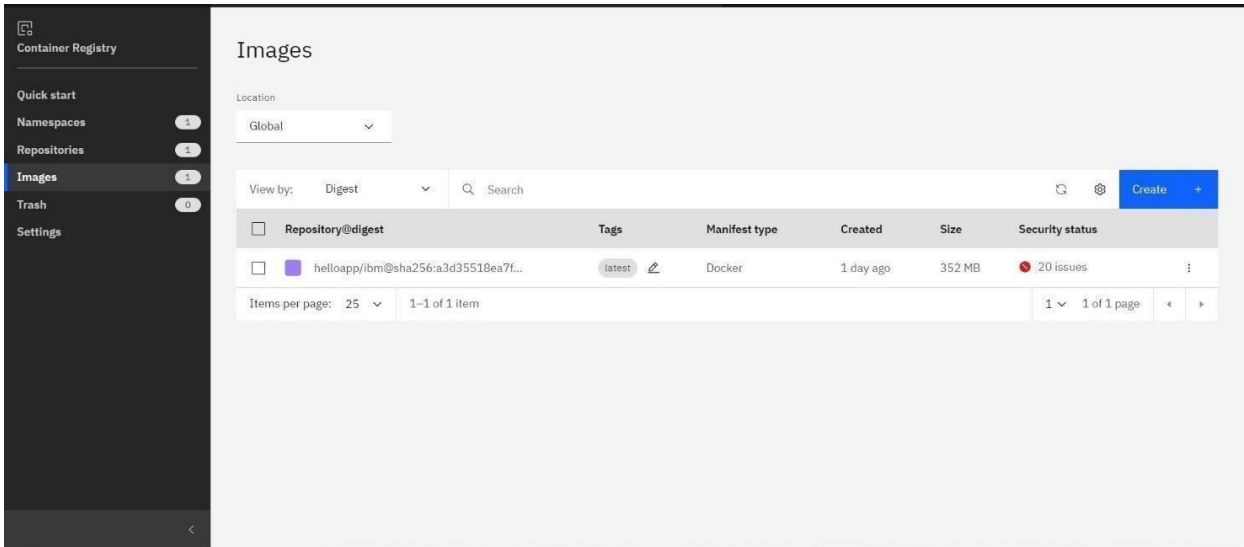
Engineering

Garments / Textile

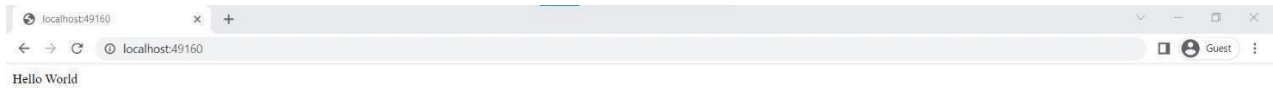
Question 3:

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

CONTAINER REGISTRY DEPLOYMENT:



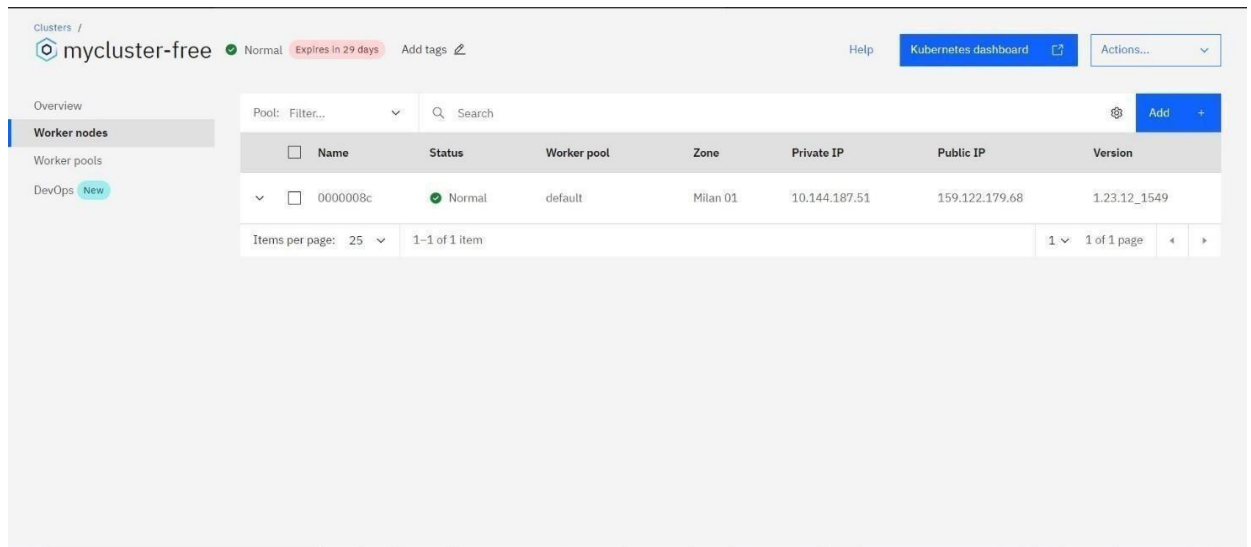
OUTPUT:



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:



OUTPUT:

