

## Assignment - 4

Assignment Date	24 October 2022
Student Name	PRAVEEN P C
Student Roll Number	111519205033
Maximum Marks	2 Marks

### Question 1:

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

The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a timer at 03:56:09, a 'CLOSE SESSION' button, and a list of instances including '192.168.0.18 node1'. The main panel displays the instance details for 'cduieiie3\_cdueile3tccg00cslao0', including its IP (192.168.0.18) and an SSH command. The terminal window shows the following 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@192.168.0.18 ~  
$ 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
```

The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a timer at 03:56:03, a 'CLOSE SESSION' button, and a list of instances including '192.168.0.18 node1'. The main panel displays the instance details for 'cduieiie3\_cdueile3tccg00cslao0', including its IP (192.168.0.18) and an SSH command. The terminal window shows the following output:

```
Status: Downloaded newer image for hello-world:latest  
docker.io/library/hello-world:latest  
[node1] (local) root@192.168.0.18 ~  
$ 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
```

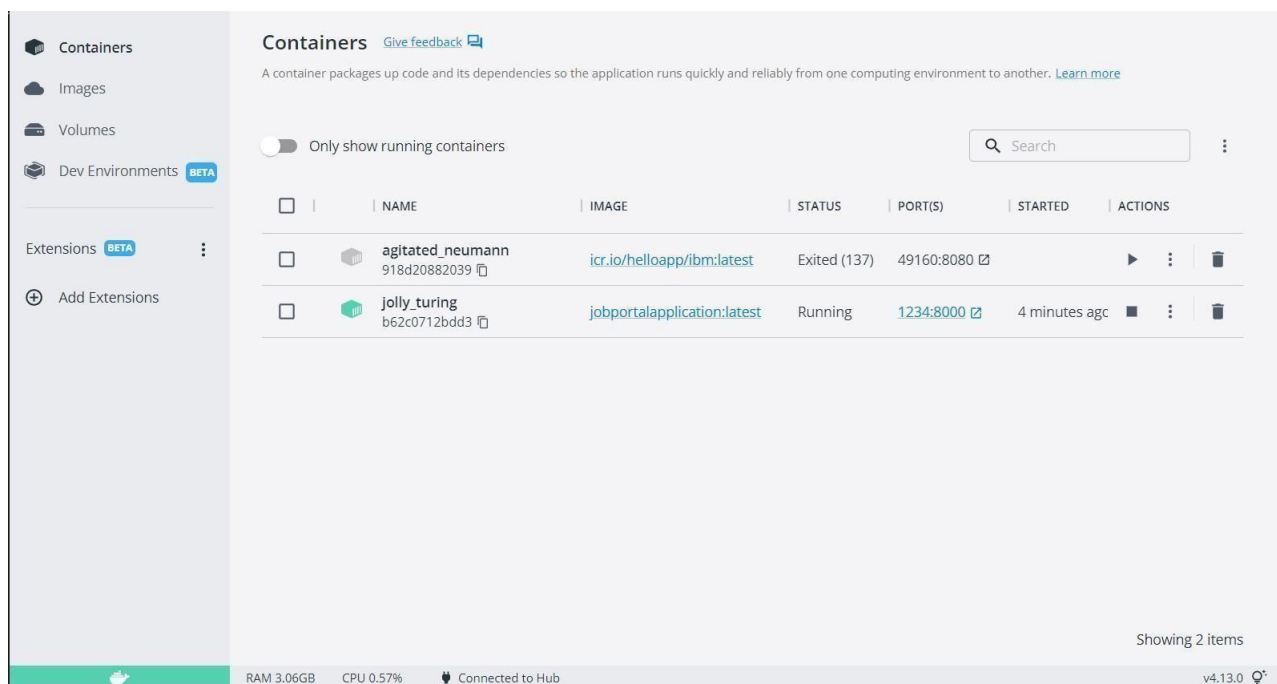
### Question 2:

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

## DOCKERFILE:

```
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 8080
14
15 RUN chmod +x entrypoint.sh
16
17 CMD ["sh", "entrypoint.sh"]
```

## DEPLOYMENT OF JOBPORTAL APPLICATION:

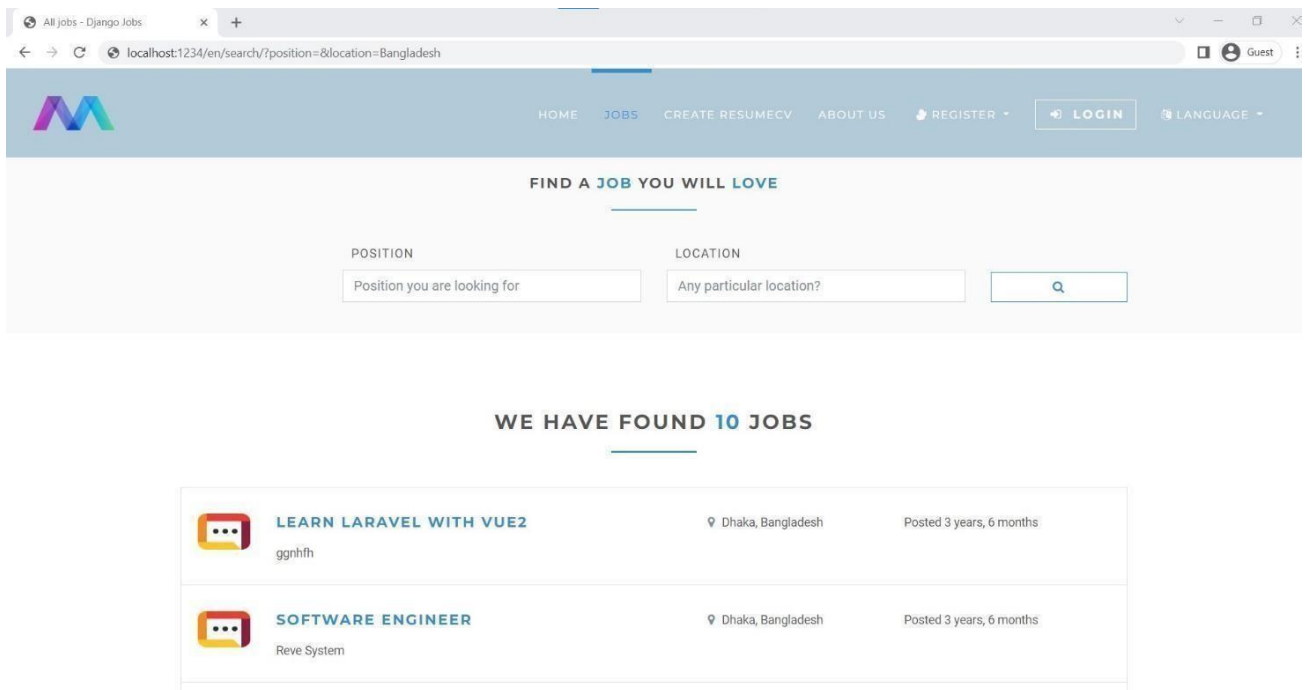


The screenshot shows the Docker Desktop interface. On the left is a sidebar with navigation options: Containers, Images, Volumes, Dev Environments (marked BETA), Extensions (marked BETA), and Add Extensions. The main panel is titled 'Containers' and includes a toggle for 'Only show running containers' 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 of the main panel, it says 'Showing 2 items'. The bottom status bar shows system metrics: RAM 3.06GB, CPU 0.57%, Connected to Hub, and version v4.13.0.

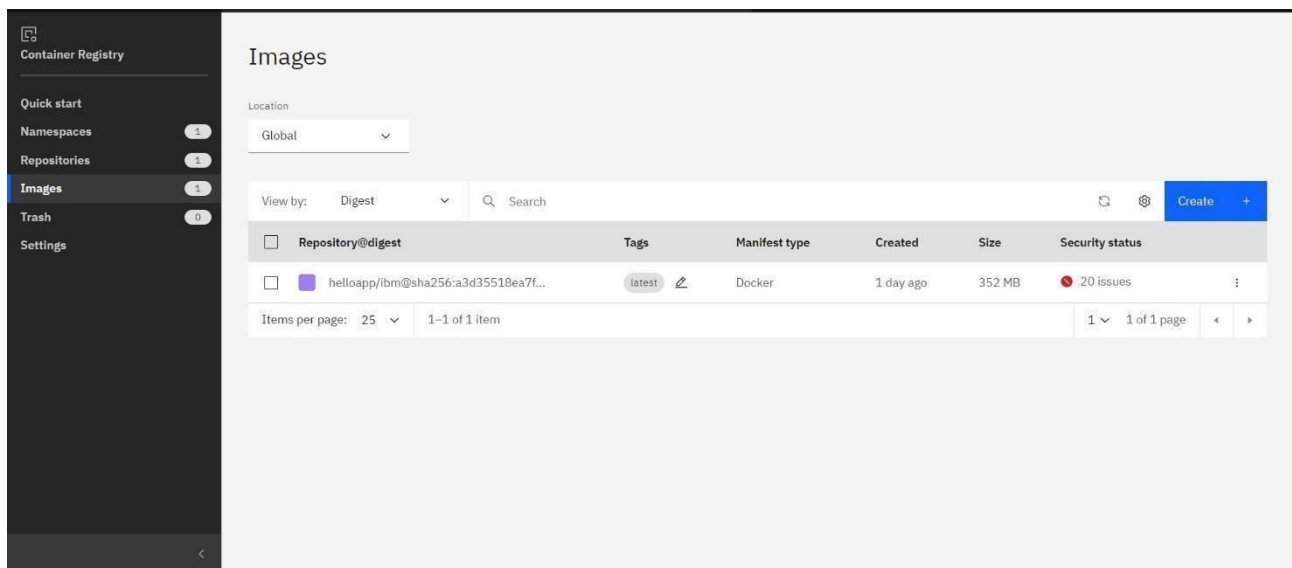
## OUTPUT:



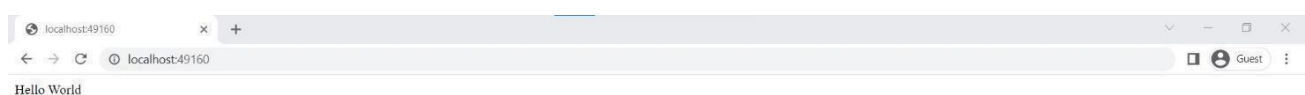
### Question 3:

Create an IBM container registry and deploy hello world app or job portal 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 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 Kubernetes dashboard. The cluster is named 'mycluster-free' and is in a 'Preparing master, workers...' state, with a red banner indicating it 'Expires in 30 days'. The 'Worker nodes' tab is selected, showing a table with one worker node.

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
00000075	Provisioning - Infrastructure operation: Publish server data	default	Milan 01	10.144.185.139	159.122.187.127	--> 1.24.8_1545

OUTPUT:

## ALL TEMPLATES

**FREE**

Resume 1

**BUILDER**

**FREE**

## Resume 2

BUILDER

**FREE**

CV

BUILDER