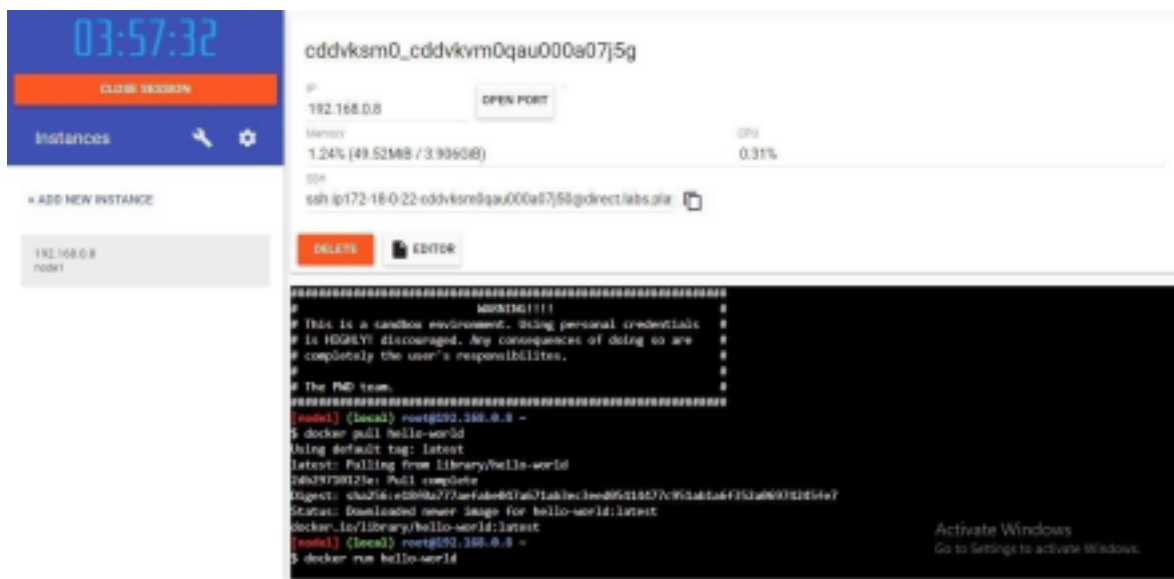


## Assignment- 4

Name	ASHWIN S
Team ID	PNT2022TMIDO1701
Project Name	Personal Expense Tracker Application

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



The screenshot displays the Docker Playground interface. On the left, there's a sidebar with a clock showing 03:57:32, a 'CLOSE SESSION' button, and a list of instances. The main area shows details for a container named 'cddvksm0\_cddvkvm0qau000a07j5g' with IP 192.168.0.8. Below the container details, there's a terminal window showing the following commands and output:

```
[root@192.168.0.8 ~]# docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
2462979021e: Pull complete
Digest: sha256:c2890a77aef4e6d7ab71abec1e0651827c951a6a6f732a690321d5e7
Status: Downloaded newer image for hello-world:latest
[root@192.168.0.8 ~]# docker run hello-world
```

The terminal output shows the 'hello-world' message, indicating that the container is running successfully.

03:57:05

CLOSE SESSION

Instances 🔑 ⚙️

+ ADD NEW INSTANCE

192.168.0.8 node1

cddvksm0\_cddvkvm0qau000a07j5g

IP

192.168.0.8

OPEN PORT

Memory

1.26% (50.45MiB / 3.906GiB)

CPU

0.39%

SSH

ssh ip172-18-0-22-cddvksm0qau000a07j5g@direct.labs.pla 📄

DELETE

EDITOR

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:

```
$ 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/>

```
[root@localhost ~]# ssh ip192.168.0.8 -
```

```
$
```

Activate Windows

Go to Settings to activate Windows.

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

desktopapplication. 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 JOBPOTAL APPLICATION:

**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](#)

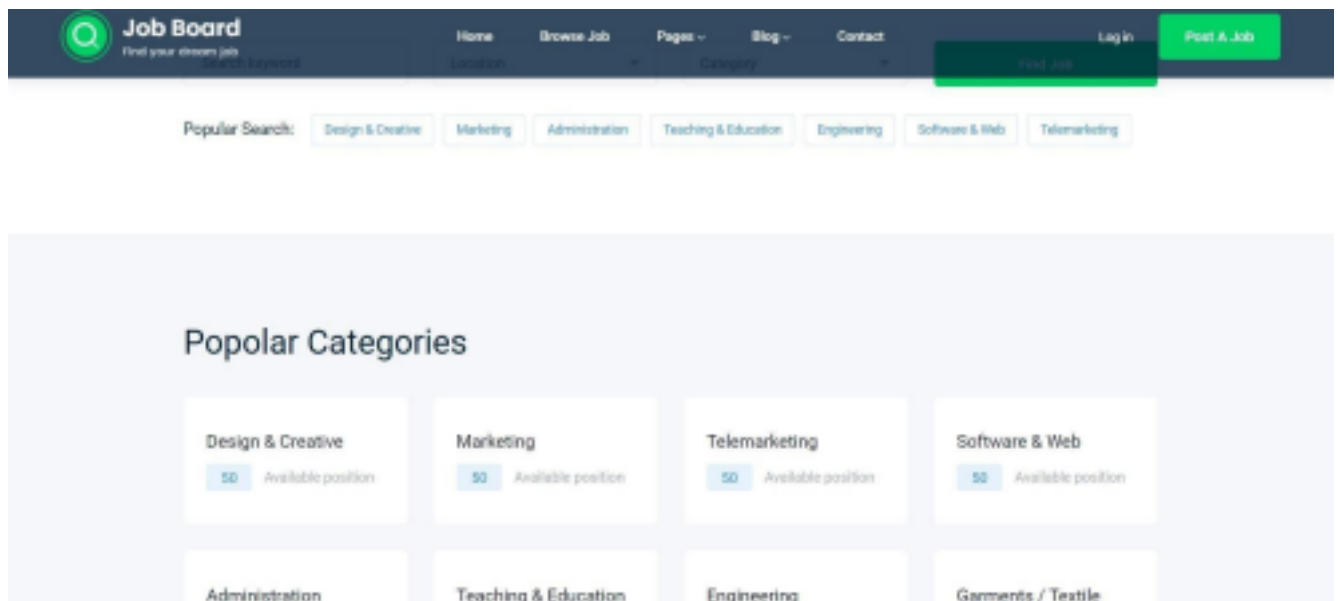
☐ Only show running containers

	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<input type="checkbox"/>	agitated_neumann 918d20862539	icr.io/helloapp/bmctest	Exited (137)	49160:8080		
<input type="checkbox"/>	jolly_buring b62a07129d33	jobportalapplication:latest	Running	1234:8000	4 minutes ago	

Showing 2 items

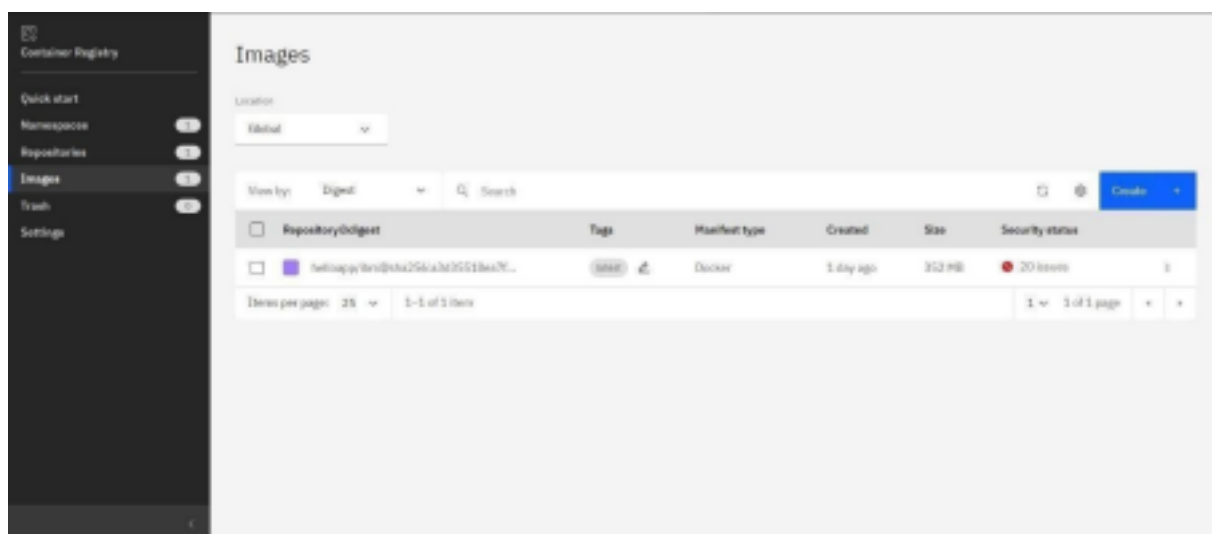
RAM 3.66GB CPU 0.57% Connected to Hub v4.13.0

## OUTPUT:

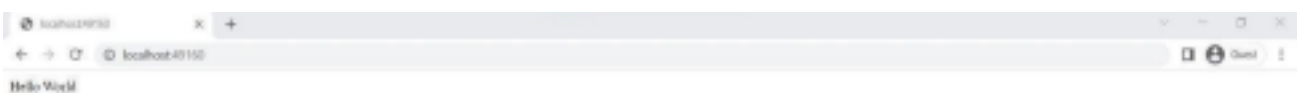


3.Create a IBM container registry and deploy hello-world app or job port

app.IBM CONTAINER REGISTRY DEPLOYMENT:

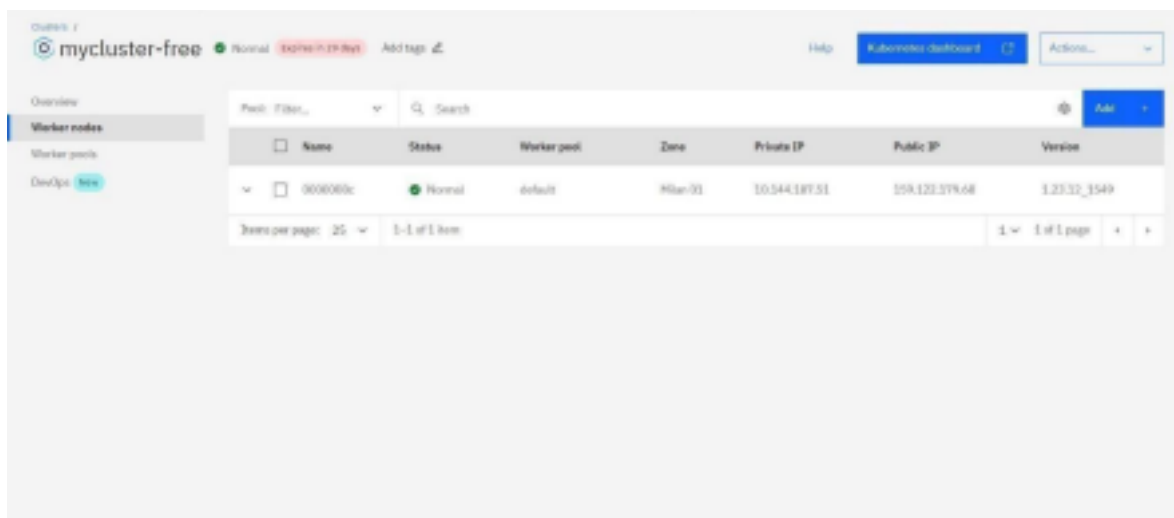


OUTPUT:



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 'mycluster-free' dashboard in IBM Cloud. The 'Worker nodes' tab is selected, displaying a table with one node. The node's status is 'Normal', and it is part of the 'default' worker pool. The table includes columns for Name, Status, Worker pool, Zone, Private IP, Public IP, and Version.

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
0000060c	Normal	default	nlb-us-01	10.544.187.51	159.122.379.68	1.25.12_1549

Output:

