

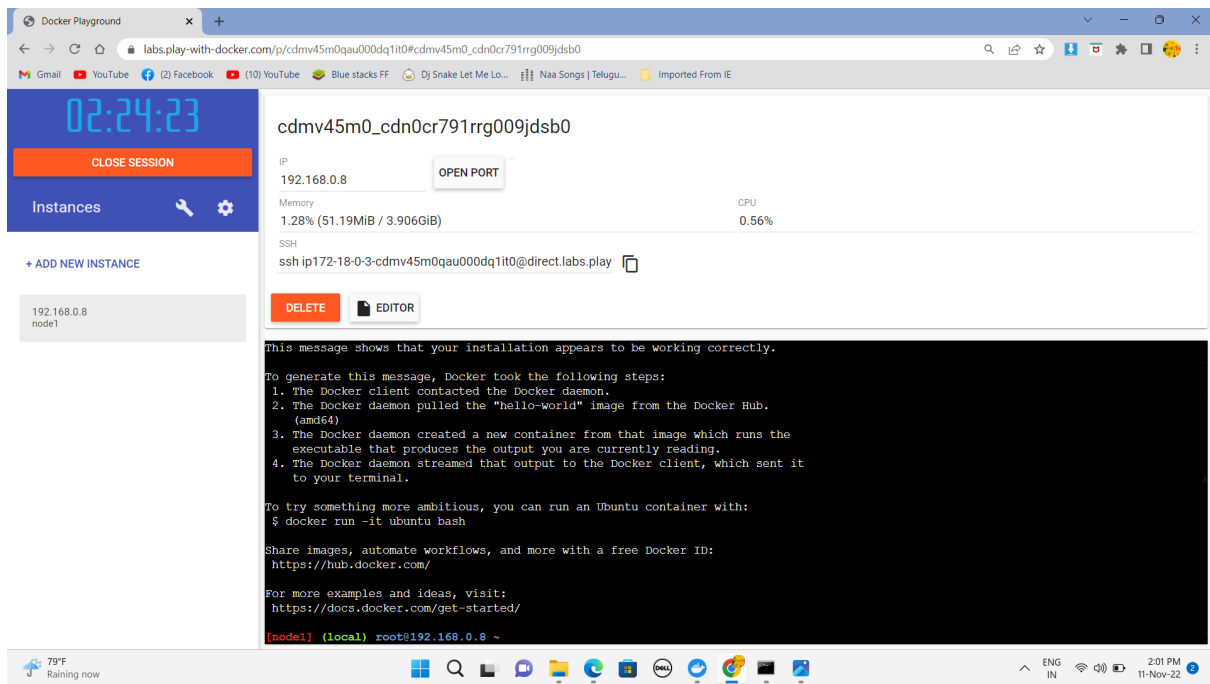
# ASSIGNMENT 4

TEAM ID	PNT2022TMID07477
PROJECT NAME	NUTRITION ASSISTANT APPLICATION
TEAM LEADER	PALAGIRI SANA
TEAM MEMBERS	VUSTHILI VIMALA M.S NANDHINI S.VIDARSHANA

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 browser address bar shows the URL: `labs.play-with-docker.com/p/cdmv45m0qau000dq1it0#cdmv45m0_cdn0cr791rrg009jdsb0`. The interface includes a sidebar with a clock showing 02:24:59, a 'CLOSE SESSION' button, and an 'Instances' section with a '+ ADD NEW INSTANCE' button. The main area displays the instance name 'cdmv45m0\_cdn0cr791rrg009jdsb0' and its IP address '192.168.0.8'. Below this, there are buttons for 'OPEN PORT', 'DELETE', and 'EDITOR'. The 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 PWD 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:faa02e786c97f07ef34423fccceec2398ec8a5759259f94d99078f264e9d7af  
Status: Downloaded newer image for hello-world:latest  
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.
```



2. Create a docker file for the jobportal application and deploy it in Docker desktop application.

```

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"]

```

FROM helloworld:latest

WORKDIR ~/Desktop/

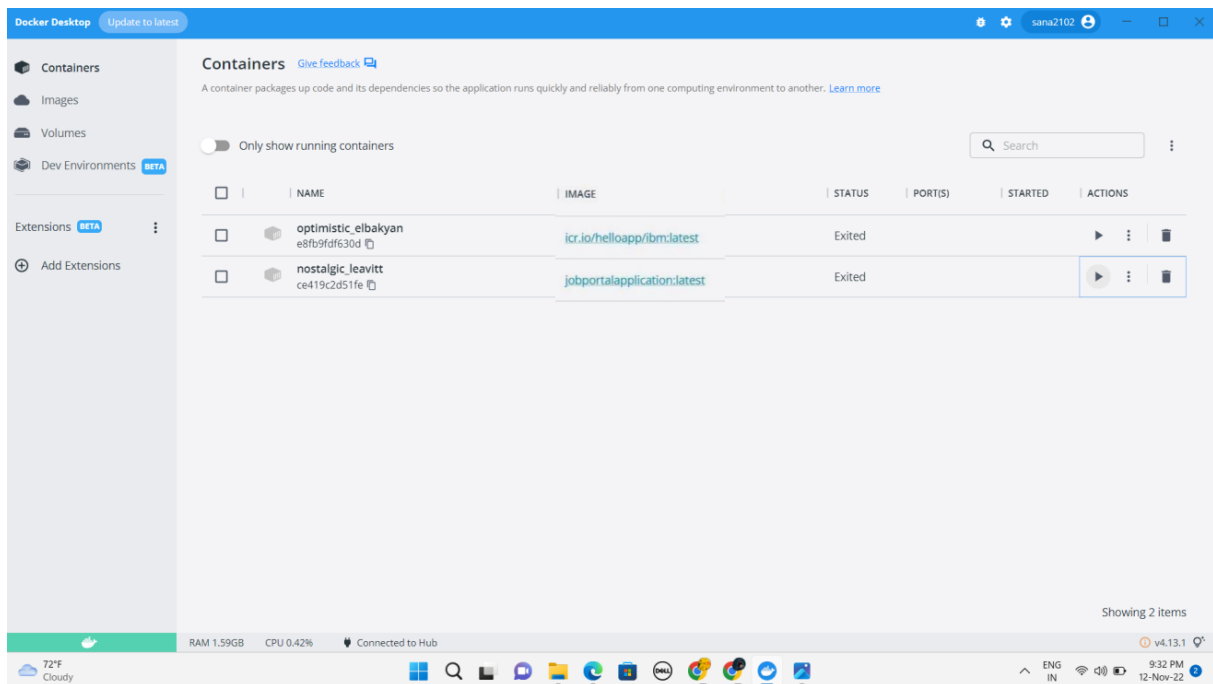
ADD . helloworld/

WORKDIR ~/Desktop/htmlfile

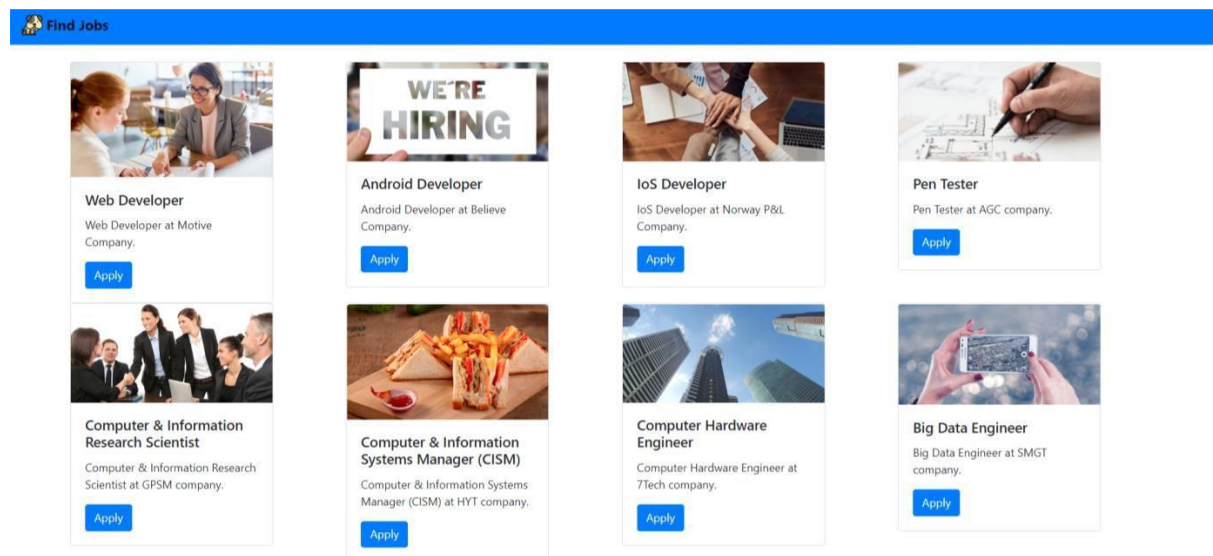
RUN pip install -r requirements

RUN chmod +x app.sh

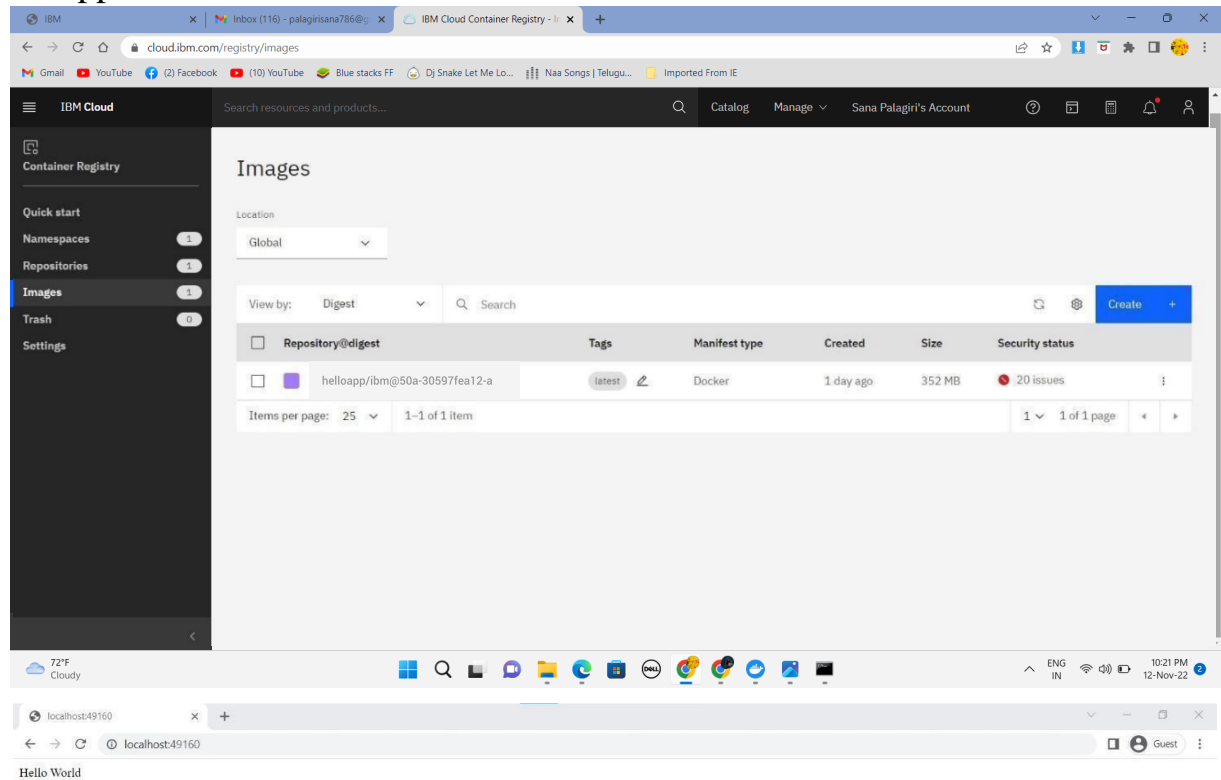
CMD ["/bin/sh","app.sh"]



## OUTPUT



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

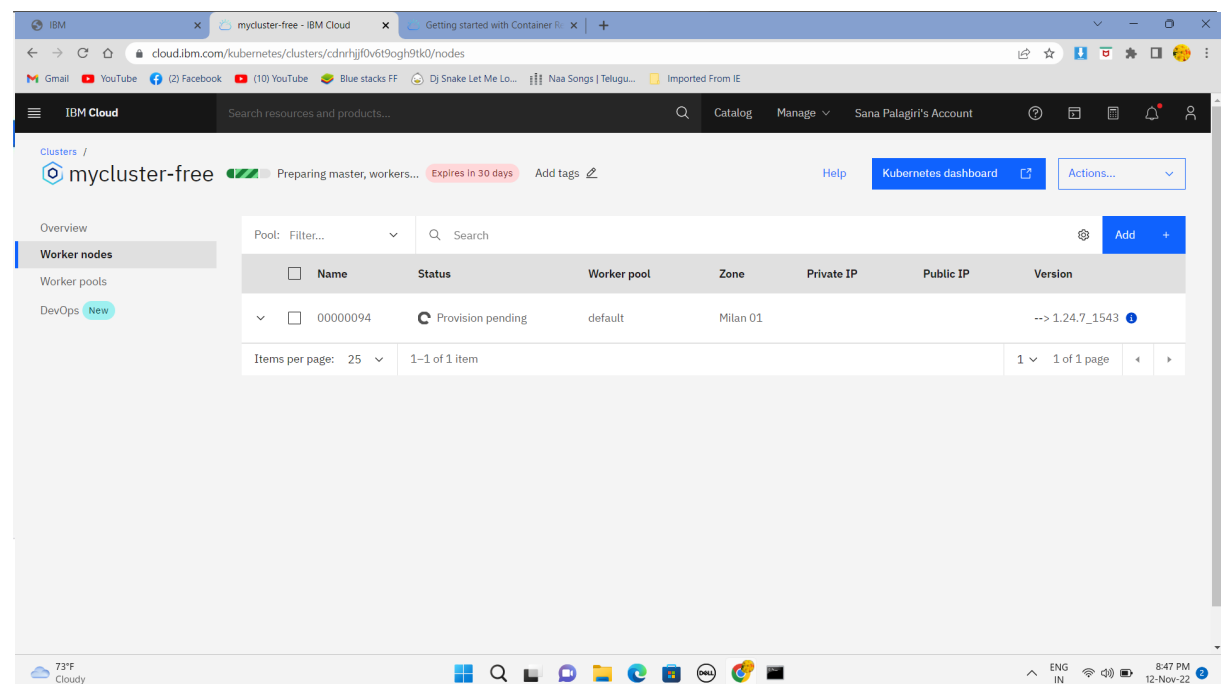


The screenshot shows the IBM Cloud Container Registry interface. The left sidebar contains navigation links: Container Registry, Quick start, Namespaces (1), Repositories (1), Images (1), Trash (0), and Settings. The main area is titled 'Images' and shows a list of images. The location is set to 'Global'. The view is set to 'Digest'. A search bar is present. The table lists the following image:

Repository@digest	Tags	Manifest type	Created	Size	Security status
helloapp/ibm@50a-30597fea12-a	latest	Docker	1 day ago	352 MB	20 issues

Below the table, it shows 'Items per page: 25' and '1-1 of 1 item'. The bottom status bar shows '72°F Cloudy' and the time '10:21 PM 12-Nov-22'.

### 4. Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.



The screenshot shows the IBM Cloud Kubernetes cluster interface. The left sidebar contains navigation links: Overview, Worker nodes, Worker pools, and DevOps (New). The main area is titled 'mycluster-free' and shows a status of 'Preparing master, workers... Expires in 30 days'. A 'Kubernetes dashboard' button is visible. The table lists the following worker nodes:

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
00000094	Provision pending	default	Milan 01			--> 1.24.7_1543

Below the table, it shows 'Items per page: 25' and '1-1 of 1 item'. The bottom status bar shows '73°F Cloudy' and the time '8:47 PM 12-Nov-22'.

The screenshot shows the IBM Cloud 'mycluster-free' dashboard. The top navigation bar includes the IBM Cloud logo, a search bar, and links to 'Catalog', 'Manage', and the user's account 'Sana Palagiri's Account'. The main header displays 'Clusters / mycluster-free' with a status indicator 'Preparing master, workers...' and an expiration notice 'Expires in 30 days'. A 'Kubernetes dashboard' button is visible.

On the left sidebar, the 'Worker pools' section is selected. The main content area shows a table of worker pools:

Name	Zones	Status	Workers per zone	Actual / Declared workers	Flavor
default	Milan 01	Active	1	1 / 1	Free - 2 vCPUs 4GB RAM

Below the table, it indicates 'Items per page: 25' and '1-1 of 1 item'. The bottom of the screen shows a Windows taskbar with the date '12-Nov-22' and time '8:47 PM'.

## OUTPUT

The screenshot displays a 'Find Jobs' webpage with a grid of job listings. Each listing includes a title, a brief description, and an 'Apply' button.

- Web Developer**: Web Developer at Motive Company.
- Android Developer**: Android Developer at Believe Company.
- iOS Developer**: iOS Developer at Norway P&L Company.
- Pen Tester**: Pen Tester at AGC company.
- Computer & Information Research Scientist**: Computer & Information Research Scientist at GPSM company.
- Computer & Information Systems Manager (CISM)**: Computer & Information Systems Manager (CISM) at HYT company.
- Computer Hardware Engineer**: Computer Hardware Engineer at 7Tech company.
- Big Data Engineer**: Big Data Engineer at SMTG company.