

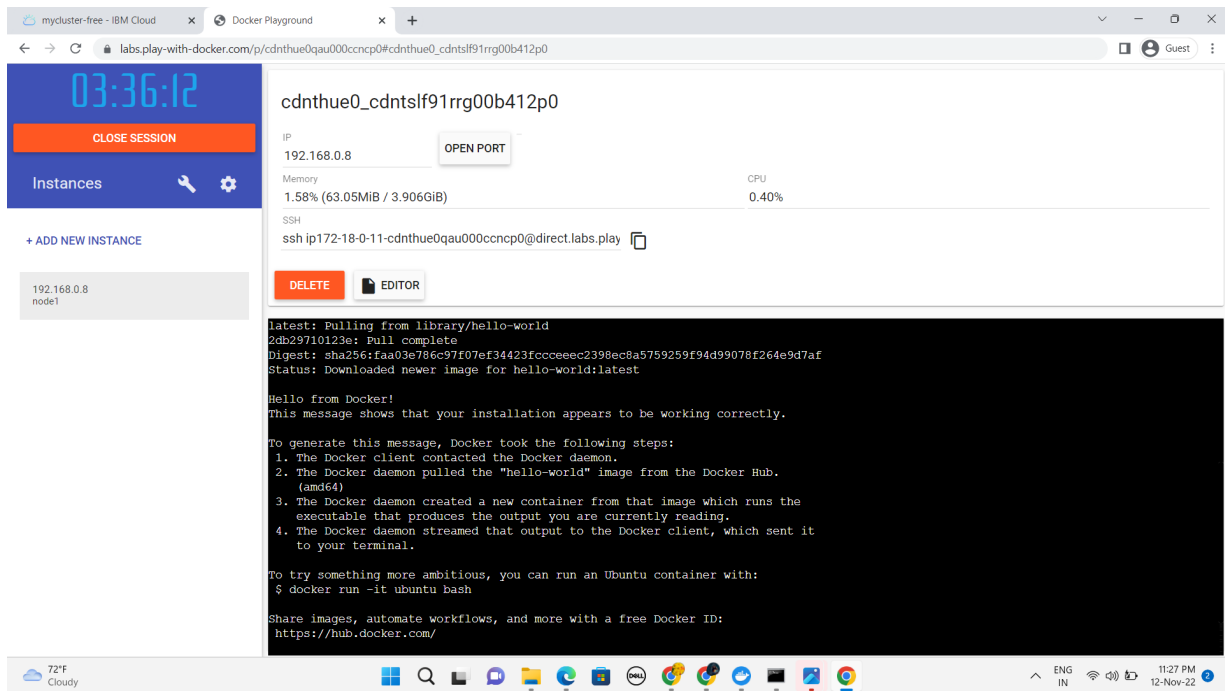
ASSIGNMENT 4

| | |
|--------------|--|
| TEAM ID | PNT2022TMID07434 |
| PROJECT NAME | NUTRITION ASSISTANT APPLICATION |
| TEAM LEADER | BURRU HEMASAI |
| TEAM MEMBERS | T.Kodanda Ramudu K.ChennaKeshava Reddy S.HariPrakash |

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

The screenshot displays the Docker Playground interface in a web browser. The browser tabs show 'mycluster-free - IBM Cloud' and 'Docker Playground'. The address bar shows the URL 'labs.play-with-docker.com/p/cdnthue0qau000ccncp0#cdnthue0_cdntslf91rrg00b412p0'. The interface includes a sidebar with a clock showing '03:36:28', a 'CLOSE SESSION' button, and an 'Instances' section with a '+ ADD NEW INSTANCE' button and a list of instances including '192.168.0.8 node1'. The main panel shows the instance 'cdnthue0_cdntslf91rrg00b412p0' with its IP, memory usage (1.49%), CPU usage (0.45%), and an SSH command. Below this, there are 'DELETE' and 'EDITOR' buttons. The terminal window shows a warning message, followed by the command '\$ docker pull ibmcom/helloworld', the output of the pull command, and the command '\$ docker run hello-world'.

```
#####  
# 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 ibmcom/helloworld  
Using default tag: latest  
latest: Pulling from ibmcom/helloworld  
5843afab3874: Pull complete  
42cb94a98d49: Pull complete  
Digest: sha256:250026285188ad3b74eee456cd2ec56c7a841e45054c8cd4422bf0a800686978  
Status: Downloaded newer image for ibmcom/helloworld:latest  
docker.io/ibmcom/helloworld:latest  
[node1] (local) root@192.168.0.8 ~  
$ docker run hello-world
```



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/

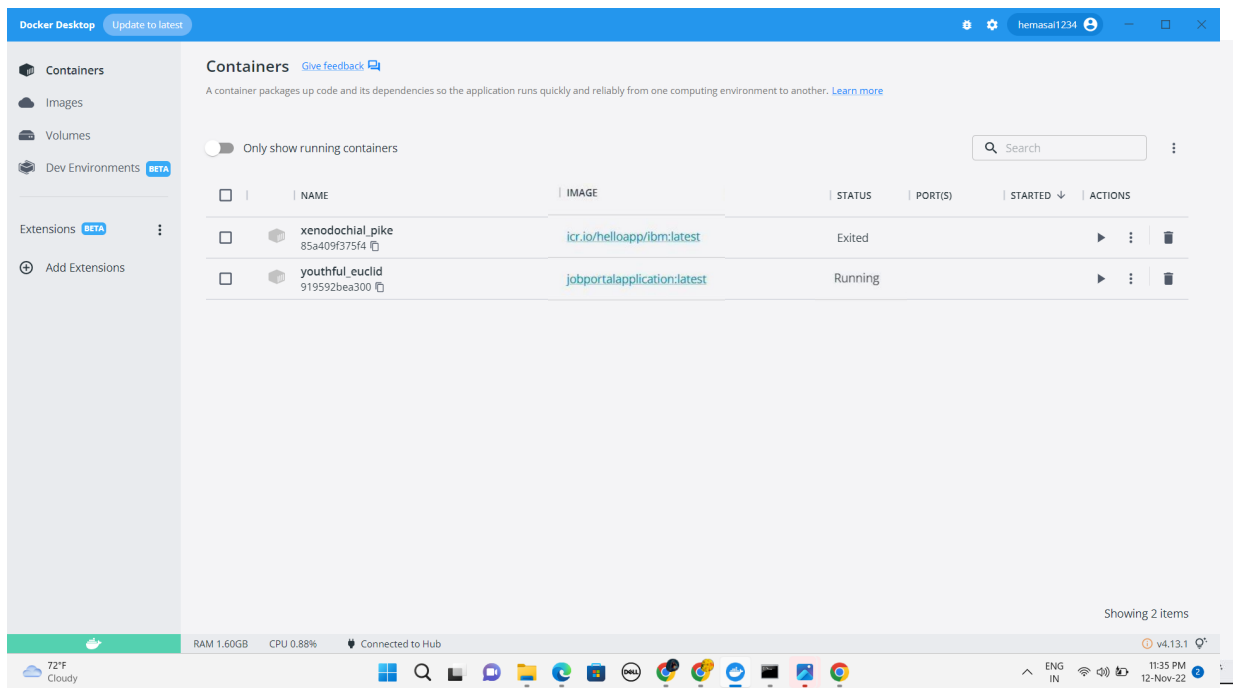
WORKDIR ~/Desktop/htmlfile

RUN pip install -r requirements

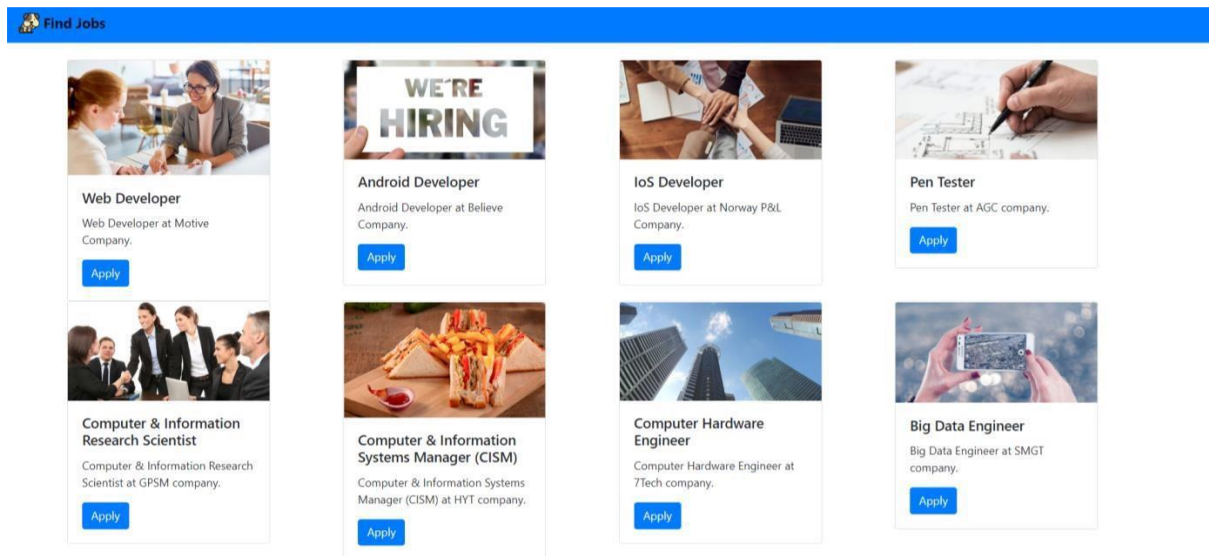
RUN chmod +x app.sh

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

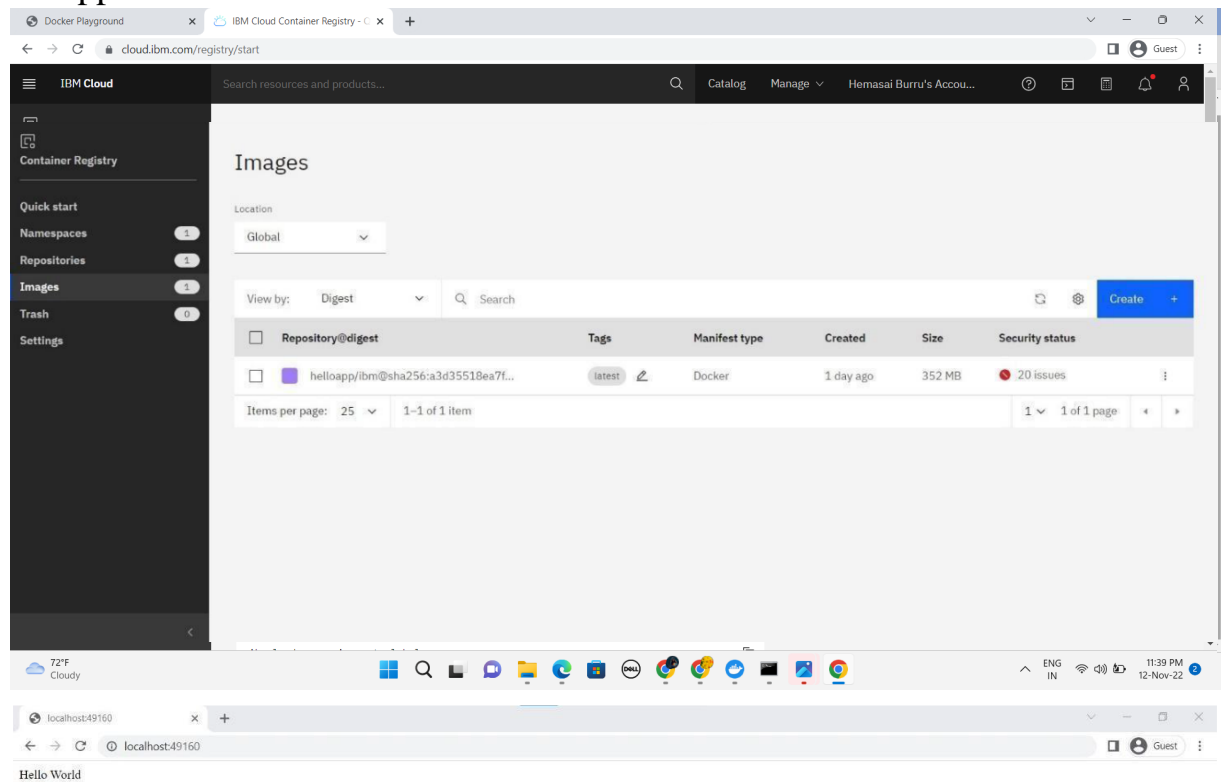
```



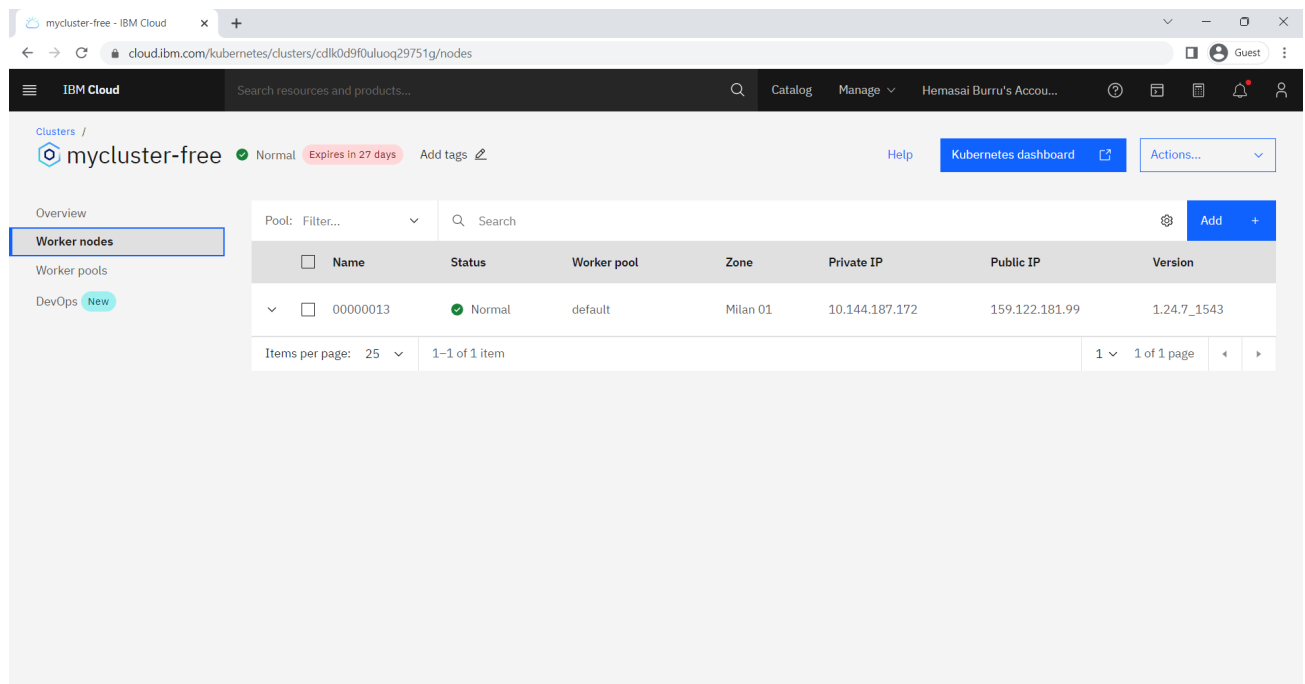
OUTPUT



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



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.



mycluster-free - IBM Cloud

cloud.ibm.com/kubernetes/clusters/cdlk0d9f0duuoq29751g/pools

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|---------|----------|--------|------------------|---------------------------|------------------------|
| default | Milan 01 | Active | 1 | 1 / 1 | Free - 2 vCPUs 4GB RAM |

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1 1 of 1 page

OUTPUT

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