

ASSIGNMENT 4

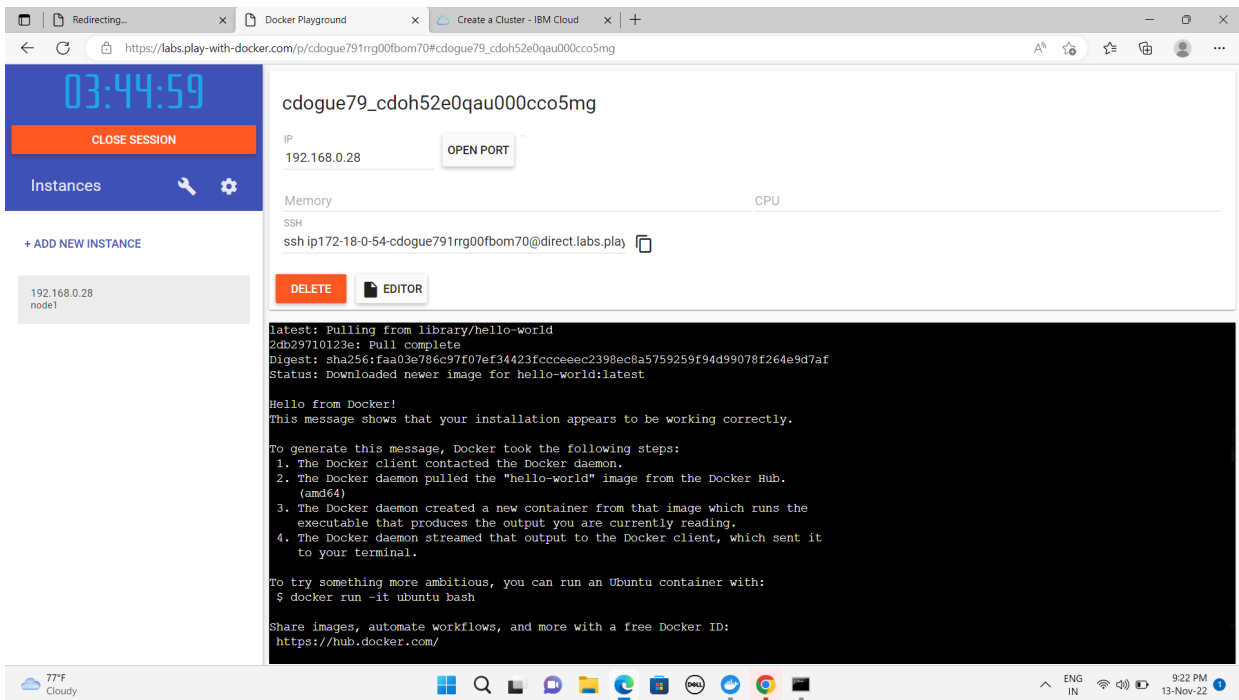
TEAM ID	PNT2022TMID07477
PROJECT NAME	NUTRITION ASSISTANT APPLICATION
TEAM LEADER	PALAGIRI SANA
TEAM MEMBERS	VUSTHILI VIMALA M.S NANDHINI S.VIDARSHANA

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

The screenshot displays the Docker Playground web interface. On the left, a sidebar shows a timer at 03:45:17, a 'CLOSE SESSION' button, and a list of instances with one instance named 'node1' at IP 192.168.0.28. The main panel shows the instance details for 'cdogue79_cdoh52e0qau000cco5mg' with IP 192.168.0.28 and an 'OPEN PORT' button. 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@192.168.0.28 ~  
$ docker pull ibmcom/helloworld  
Using default tag: latest  
latest: Pulling from ibmcom/helloworld  
5843afab3874: Pull complete  
42cb94a98d49: Pull complete  
Digest: sha256:250026285198ad3b74eee456cd2ee56c7a841e45054c8cd4422bf0a800686978  
Status: Downloaded newer image for ibmcom/helloworld:latest  
docker.io/ibmcom/helloworld:latest  
[node1] (local) root@192.168.0.28 ~  
$ docker run hello-world
```

The bottom of the screen shows a Windows taskbar with various application icons and a system tray indicating 77°F, Cloudy, and the time 9:22 PM on 13-Nov-22.



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/

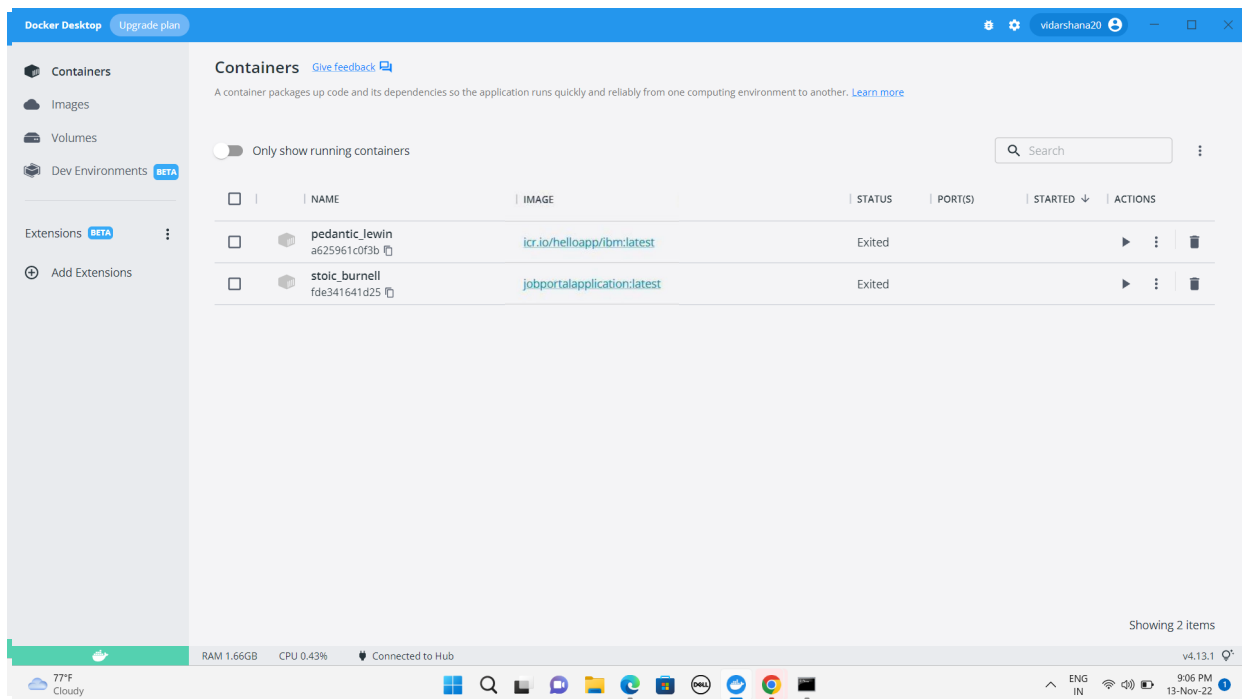
ADD . helloworld/

WORKDIR ~/Desktop/htmlfile


RUN pip install -r requirements


RUN chmod +x app.sh

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




OUTPUT






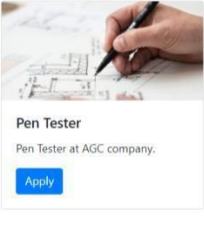
Web Developer
Web Developer at Motive Company.
[Apply](#)




WE'RE HIRING
Android Developer
Android Developer at Believe Company.
[Apply](#)




iOS Developer
iOS Developer at Norway P&L Company.
[Apply](#)




Pen Tester
Pen Tester at AGC company.
[Apply](#)




Computer & Information Research Scientist
Computer & Information Research Scientist at GPSM company.
[Apply](#)



Computer & Information Systems Manager (CISM)
Computer & Information Systems Manager (CISM) at HYT company.
[Apply](#)



Computer Hardware Engineer
Computer Hardware Engineer at 7Tech company.
[Apply](#)



Big Data Engineer
Big Data Engineer at SMGT company.
[Apply](#)

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

The screenshot shows the IBM Container Registry interface. On the left is a sidebar with 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 by' is set to 'Digest'. A search bar is present. The table below shows the image details:

Repository@digest	Tags	Manifest type	Created	Size	Security status
helloapp/ibm@sha256:a3d35518ea7f...	latest	Docker	1 day ago	352 MB	20 issues

Below the table, it says 'Items per page: 25' and '1-1 of 1 item'. At the bottom, there is a browser window showing 'localhost:49160' with the text 'Hello World'.

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 management page. The browser address bar shows 'https://cloud.ibm.com/kubernetes/clusters/cdoh76tf02aqion50h0g/nodes'. The page title is 'mycluster-free'. The status is 'Preparing master, workers...' and it 'Expires in 30 days'. There is a 'Kubernetes dashboard' button and an 'Actions...' dropdown. The left sidebar has links for Overview, Worker nodes, Worker pools, and DevOps (New). The main area shows a table of worker nodes:

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
000000db	Normal	default	Milan 01	10.144.213.23	169.51.203.91	1.24.7_1543

At the bottom, there is a Windows taskbar showing the date and time as 9:45 PM on 13-Nov-22.

mycluster-free Preparing master, workers... Expires in 30 days [Add tags](#)

Overview
Worker nodes
Worker pools
DevOps New


Search

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


Items per page: 25 1-1 of 1 item 1 1 of 1 page

OUTPUT


Find Jobs




Web Developer
Web Developer at Motive Company.
[Apply](#)




Android Developer
Android Developer at Believe Company.
[Apply](#)




iOS Developer
iOS Developer at Norway P&L Company.
[Apply](#)




Pen Tester
Pen Tester at AGC company.
[Apply](#)




Computer & Information Research Scientist
Computer & Information Research Scientist at GPSM company.
[Apply](#)



Computer & Information Systems Manager (CISM)
Computer & Information Systems Manager (CISM) at HYT company.
[Apply](#)



Computer Hardware Engineer
Computer Hardware Engineer at 7Tech company.
[Apply](#)



Big Data Engineer
Big Data Engineer at SMTG company.
[Apply](#)