

# ASSIGNMENT-4

TEAM ID	PNT2022TMID43046
PROJECT NAME	CUSTOMER CARE REGISTRY
NAME	SNEHA

Question 1:

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

03:57:32

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.8  
node1

cddvksm0\_cddvkvm0qau000a07j5g

IP  
192.168.0.8

OPEN PORT

Memory  
1.24% (49.52MiB / 3.906GiB)

CPU  
0.31%

SSH  
ssh ip172-18-0-22-cddvksm0qau000a07j50@direct.labs.pla

DELETE

EDITOR

```
#####
# 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
2db297f0123e: Pull complete
Digest: sha256:e18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
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
```

Activate Windows  
Go to Settings to activate Windows.

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-cddvksm0qau000a07j50@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/>

[node1] (local) root@192.168.0.8 ~

\$

Activate Windows

Go to Settings to activate Windows.

Question 2:

Create a dockerfile for the jobportal application and deploy it in Dockerdesktop 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 8000
14
15 RUN chmod +x entrypoint.sh
16
17 CMD ["sh", "entrypoint.sh"]

```

## DEPLOYMENT OF JOBPORTAL APPLICATION:

Containers

Images

Volumes

Dev Environments BETA

Extensions BETA

Add Extensions

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"/>	<div>agitated_neumann</div> <div>918d20882039</div>	<a href="#">icr.io/helloapp/ibm:latest</a>	Exited (137)	49160:8080		<div></div> <div></div> <div></div>
<input type="checkbox"/>	<div>jolly_turing</div> <div>b62c0712bdd3</div>	<a href="#">jobportalapplication:latest</a>	Running	1234:8000	4 minutes ago	<div></div> <div></div> <div></div>

Showing 2 items

RAM 3.06GB


CPU 0.57%

Connected to Hub

v4.13.0

## OUTPUT:


Find Jobs



Web Developer

Web Developer at Motive Company.

Apply




WE'RE HIRING

Android Developer

Android Developer at Believe Company.


Apply



IoT Developer

IoT 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

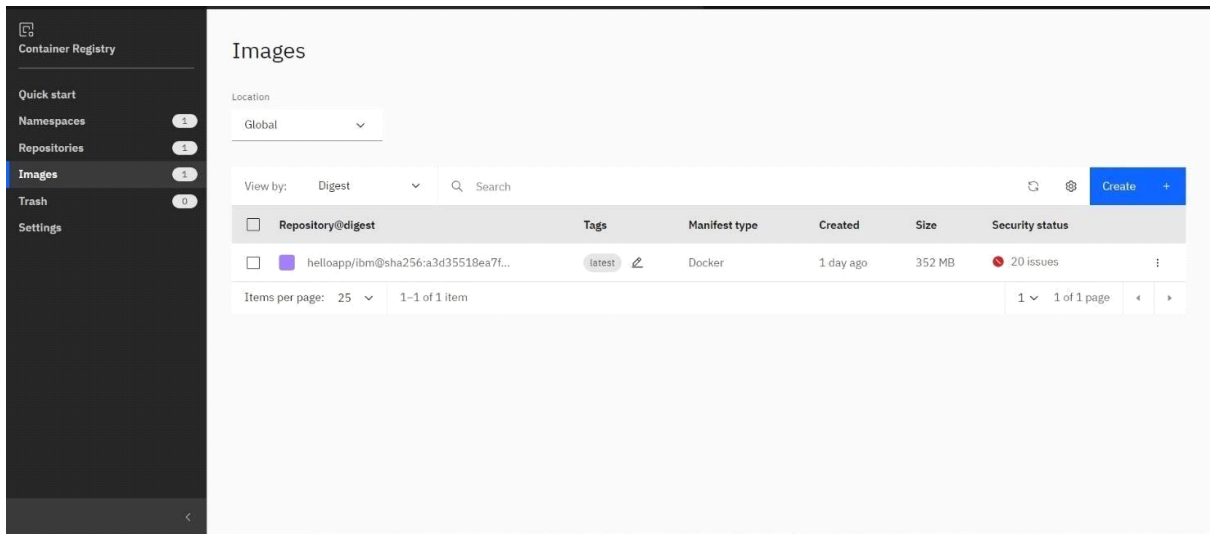


Big Data Engineer

Big Data Engineer at SMGT company.

Apply

Question 3:



Create a IBM container registry and deploy helloworld app

or jobportapp. IBM CONTAINER REGISTRY

DEPLOYMENT:

OUTPUT:



Question 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.

## CREATING KUBERNETES CLUSTER IN IBM CLOUD AND EXPOSING NODEPORT:

Clusters / mycluster-free Normal Expires in 29 days Add tags Help Kubernetes dashboard Actions...

Overview

**Worker nodes**

Worker pools

DevOps new


Pool: Filter... Search Add

<input type="checkbox"/>	Name	Status	Worker pool	Zone	Private IP	Public IP	Version
<input type="checkbox"/>	0000008c	<span>Normal</span>	default	Milan 01	10.144.187.51	159.122.179.68	1.23.12_1549


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## 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 GPM 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 SMT company.  
[Apply](#)