

ASSIGNMENT-4

Date	05 NOV 2022
Team ID	PNT2022TMID03158
Project Name	Nutrition assistant application

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
2db29710123e: 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 docker file for the job portal application and deploy it in the Docker Desktop 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 JOB PORTAL 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

<input type="checkbox"/>	NAME	IMAGE	STATUS	PORT(S)	STARTED	ACTIONS
<input type="checkbox"/>	agitated_neumann 918d20882039	icr.io/helloapp/ibm:latest	Exited (137)	49160:8080		
<input type="checkbox"/>	jolly_turing b62c0712bdd3	jobportalapplication:latest	Running	1234:8000	4 minutes ago	

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](#)

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](#)

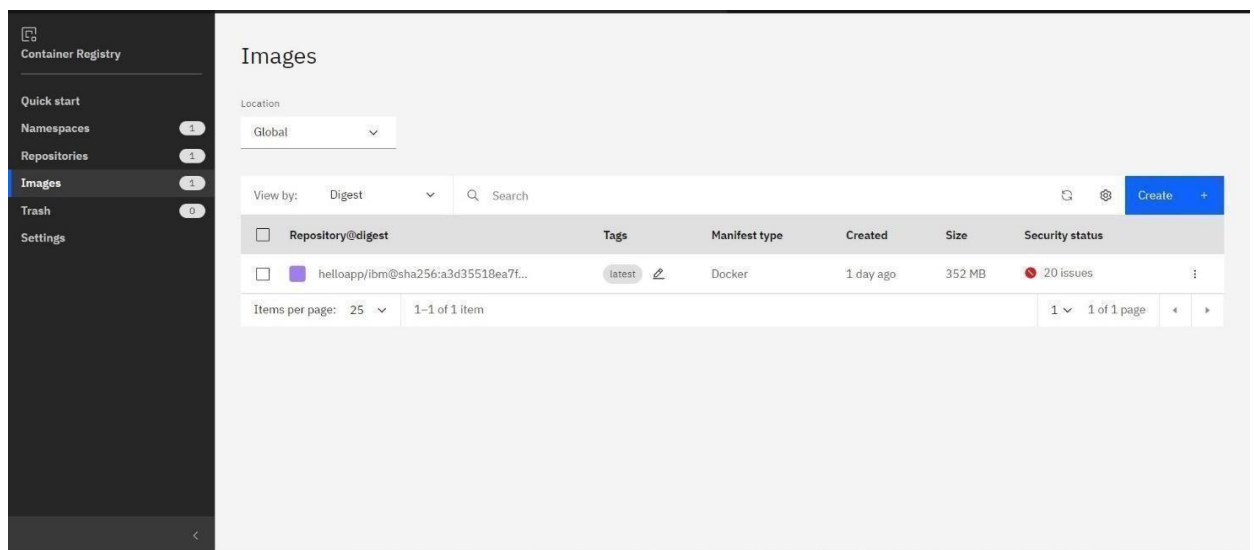
Computer Hardware Engineer
Computer Hardware Engineer at 7Tech company.
[Apply](#)

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

Question 3:

Create a IBM container registry and deploy “hello world” app or jobportapp.IBM CONTAINER

REGISTRY DEPLOYMENT:



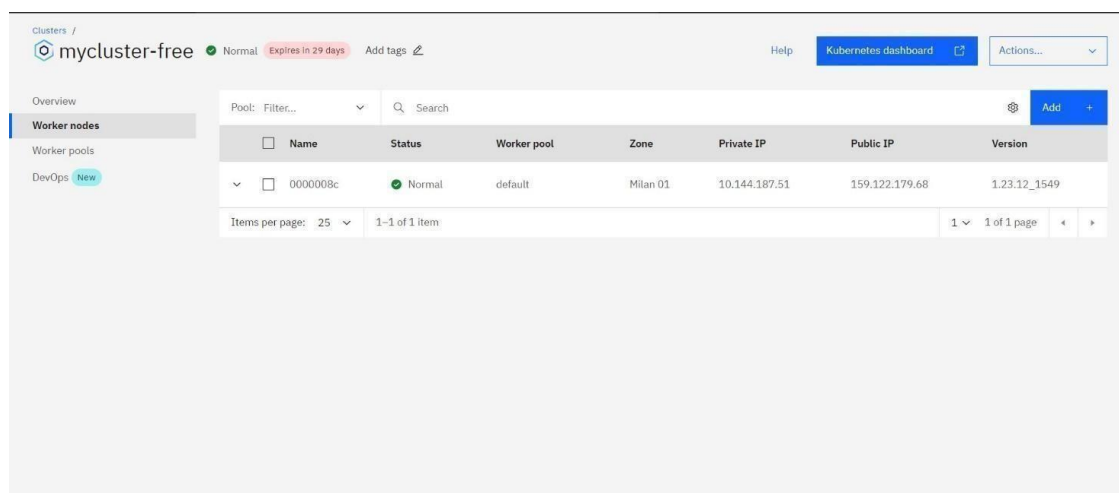
OUTPUT:




Question 4:


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

CREATING KUBERNETES CLUSTER IN IBM CLOUD AND EXPOSE NODEPORT:




OUTPUT:


 Find Jobs



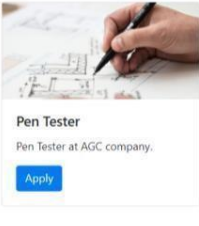
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