

Assignment -4

Assignment Date	3 November 2022
Student Name	Hari S
Student Roll Number	720719110031
Maximum Marks	2 Marks

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:e18f0a77aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
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.

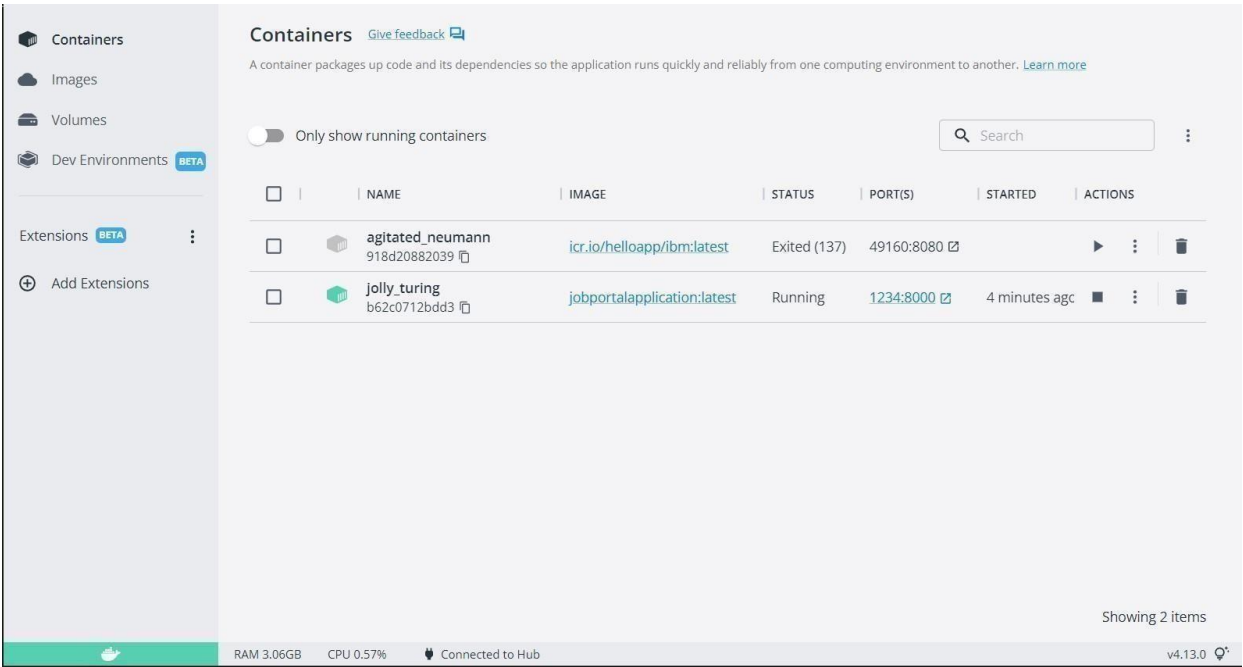
QUESTION 2:

Create a docker file for the job portal application and deploy it in Docker desktop application.


DOCKER FILE:

```
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 8080
14
15 RUN chmod +x entrypoint.sh
16
17 CMD ["sh", "entrypoint.sh"]
```

DEPLOYMENT OF JOBPORTAL APPLICATION:



OUTPUT:



Job Board
Find your dream job

Home

Browse Job

Pages ▾

Blog ▾

Contact

Log in

Post A Job

Search keyword

Location

Category

Find Job

Popular Search:

Design & Creative

Marketing

Administration

Teaching & Education

Engineering

Software & Web

Telemarketing

Popular Categories

Design & Creative

50 Available position

Marketing

50 Available position

Telemarketing

50 Available position

Software & Web

50 Available position

Administration

Teaching & Education

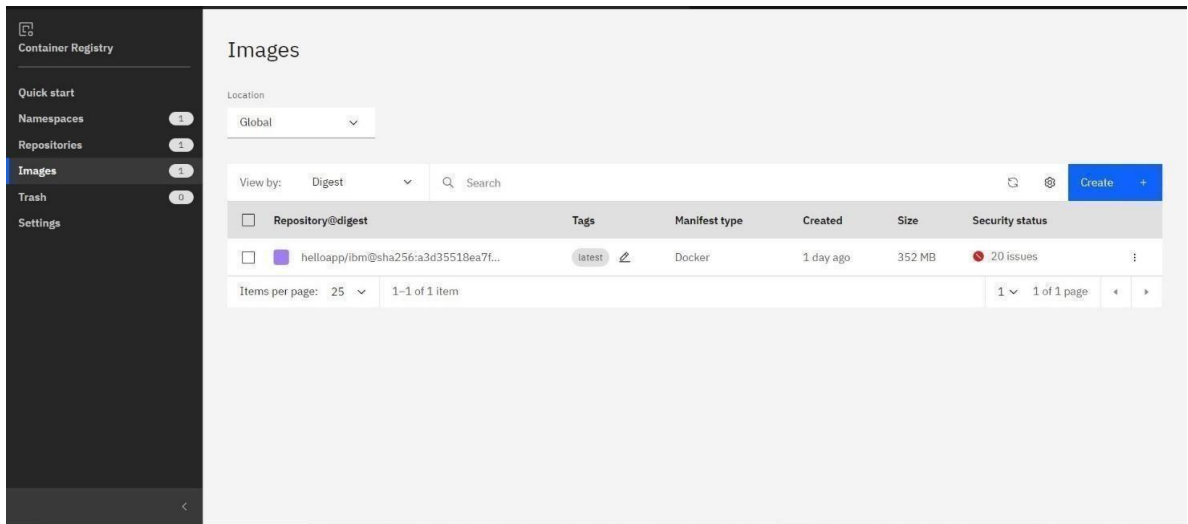
Engineering

Garments / Textile

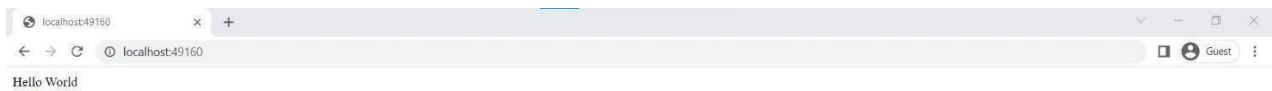
QUESTION-3:

Create a IBM container registry and deploy hello-world app or jobportal app.

CONTAINER REGISTRY DEPLOYMENT:



OUTPUT:



QUESTION-4:

Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

CREATING KUBERNETES CLUSTER IN IBM CLOUD AND EXPOSING NODE PART:

Clusters /

mycluster-free

Normal

Expires in 29 days

Add tags

Help

Kubernetates dashboard

Actions...

Overview

Worker nodes

Worker pools

DevOps

Pool: Filter...

Search

Add

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

Items per page: 25

1-1 of 1 item

1 1 of 1 page

Output:

The screenshot displays a web browser window with a job portal interface. The browser's address bar shows the URL 'D:\study\sem_7\nall...'. The page features a blue header with a 'Login Page' link. The main content area lists several job categories, each with a brief description and a 'Submit' button. The categories are: Software Engineer, Front-End Developer, Special title treatment, Java Developer, Business Analyst, Python Developer, and Back-End Developer. The footer shows the terminal command 'ps D:\study\sem_7\nallaya_thiran_works\Assignment\Team Load\Assignment_4'.

Job Portal

Find your dream job by using this Job portal.
— Below listed jobs are suited for your career.

Software Engineer
Enables full software development life cycle (SDLC). Develops frontend layouts and documentation to identify requirements and solutions.
[Submit](#)

Front-End Developer
Optimizing the user experience. Using HTML, JavaScript and CSS to bring concepts to life.
[Submit](#)

Special title treatment
A data analyst collects and stores data on sales numbers, market research, logistics, linguistics, or other behaviors.
[Submit](#)

Java Developer
A Java Developer is responsible for planning, designing, developing, and managing Java-based applications and software.
[Submit](#)

Business Analyst
Business analysts assess how organizations are performing and help them improve their processes and systems.
[Submit](#)

Python Developer
Python Developer is responsible for coding, designing, developing, and debugging development projects.
[Submit](#)

Back-End Developer
Completes and analyzes data processes, and codes to troubleshoot problems and identify areas for improvement.
[Submit](#)

Product Manager
A product manager is the person who identifies the customer need and the target business objectives that a product or feature will fulfill.
[Submit](#)

ItemCommand

ps D:\study\sem_7\nallaya_thiran_works\Assignment\Team Load\Assignment_4

Ln 37, Col 85 Spaces: 2 UTF-8 CRLF HTML