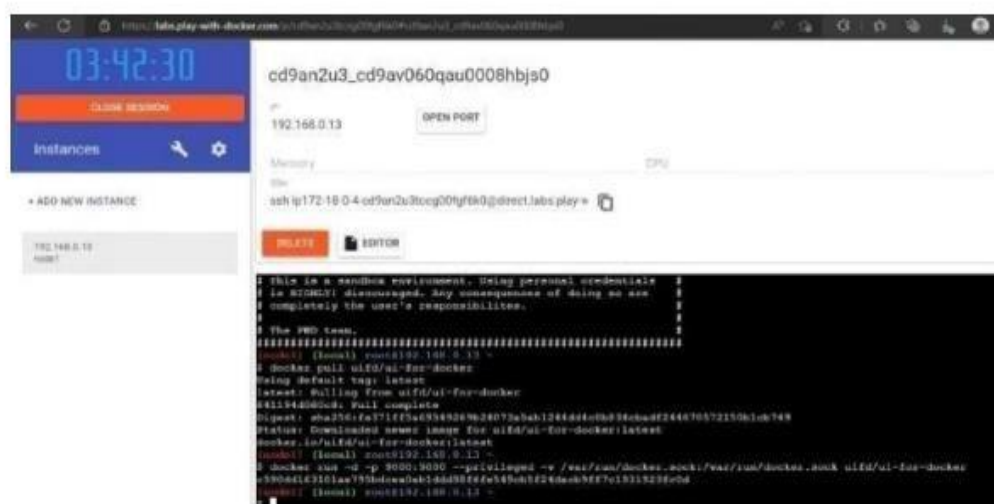
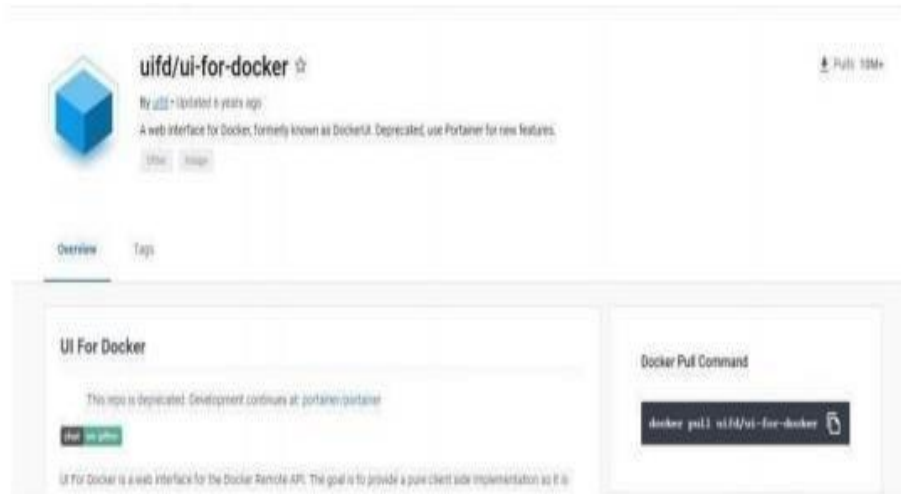


ASSIGNMENT - 4

Question-1:

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





Question-2:

2. Create a docker file for the jobportal application and deploy it in Docker desktop application.

```

# Creating Dockerfile for jobportal application
FROM ubuntu:20.04
WORKDIR /app
COPY . /app
RUN apt-get update && apt-get install -y python3 python3-pip
RUN pip3 install -r requirements.txt
EXPOSE 8080
CMD ["python3", "main.py"]

```

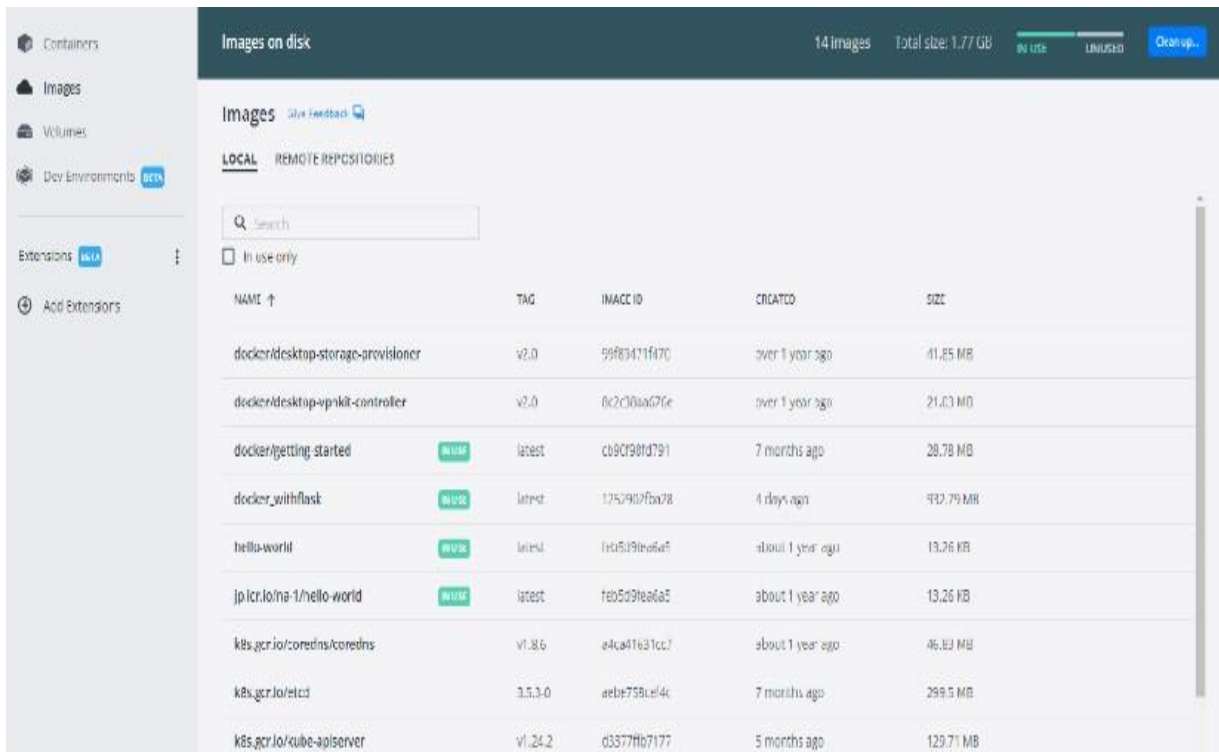
The image shows a terminal window with the following commands and output:

```

$ docker build -t jobportal .
$ docker run -p 8080:8080 jobportal

```

The output shows the Docker build process, including the installation of Python and pip, and the successful build of the jobportal image. The terminal also shows the command to run the container and the output of the application, which displays a list of job portals.



Question-3:

3. Create an IBM container registry and deploy helloworld app or jobportalapp.

<html>

<body>

Hello, IBM Cloud

</body> </html>

applications:

buildpack: <https://github.com/cloudfoundry/staticfile-buildpack.git>

host: simple-website- $\{\text{random}\}$

name: simple-website-

$\{\text{random}\}$

memory: 64M

stack: cflinuxfs2

DEPLOY
DELETE

INPUT
JOBS
ENVIRONMENT PROPERTIES

Rolling Deploy
ADD JOB

Rolling Deploy
REMOVE

Deploy configuration

Deployer type
Cloud Foundry

IBM Cloud region
US South - https://api.ng.bluemix.net

Organization
bluemix_devops@ibm.com

Space
demo

Application name
simple-website-ae7f5ff6

```

1 {
2   "ServiceId": "com.ibm.cloudoe.orion.client.deploy",
3   "Params": {
4     "Target": {
5       "Url": "https://api.ng.bluemix.net",
6       "Org": "bluemix_devops@ibm.com",
7       "Space": "demo"
8     },
9     "Name": "simple-website-ae7f5ff6",
10    "Instrumentation": {}
11  },
12  "Path": "manifest.yml",
13  "Type": "Cloud Foundry"
14 }

```

Hello, IBM Cloud World!

Question-4:

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.

Hello World!

Thanks for creating an IBM Cloud Databases for PostgreSQL database.

Add a word to the database

The word is defined as

Database output

```

The word bye is defined as a goodbye
The word bye is defined as a farewell
The word halle is defined as a greeting
The word hello is defined as a greeting
The word hello bob is defined as a greeting
The word hello bob is defined as a greeting

```