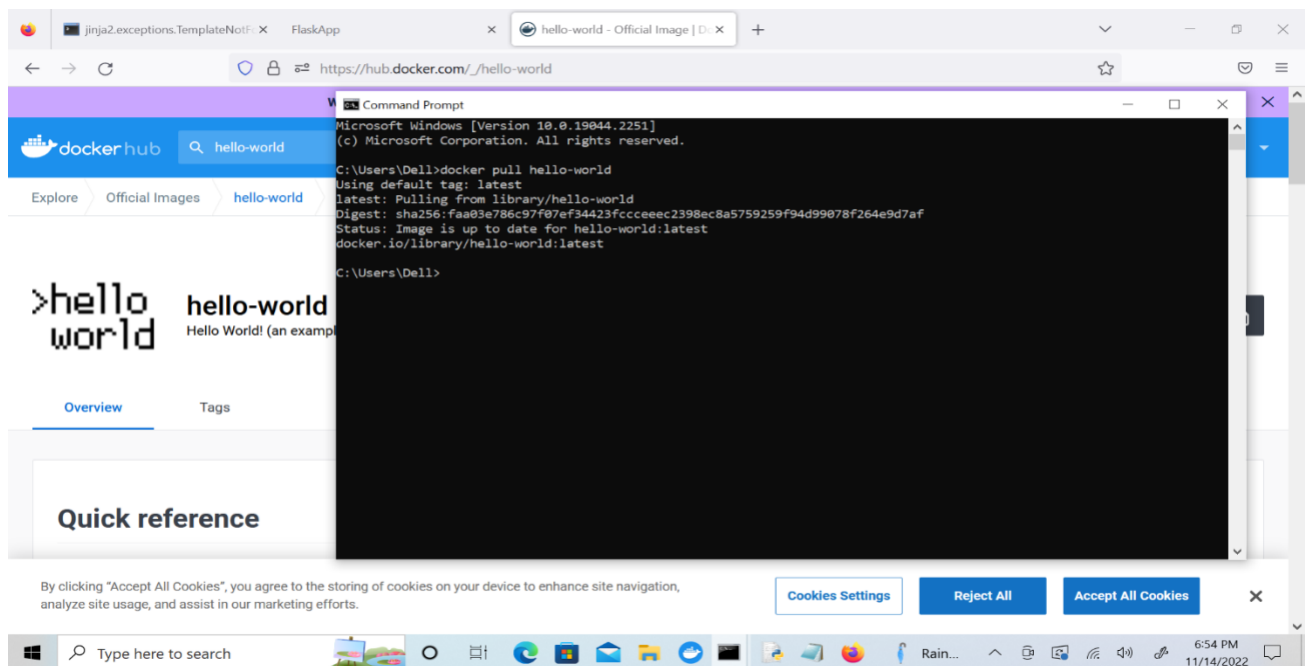
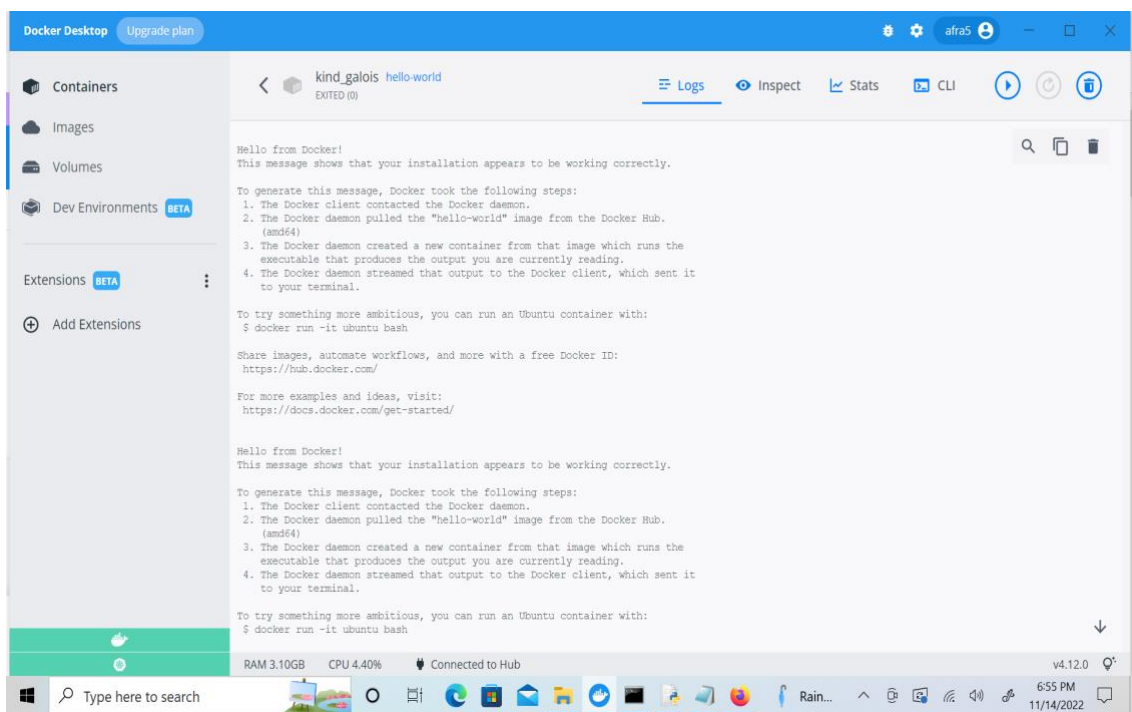
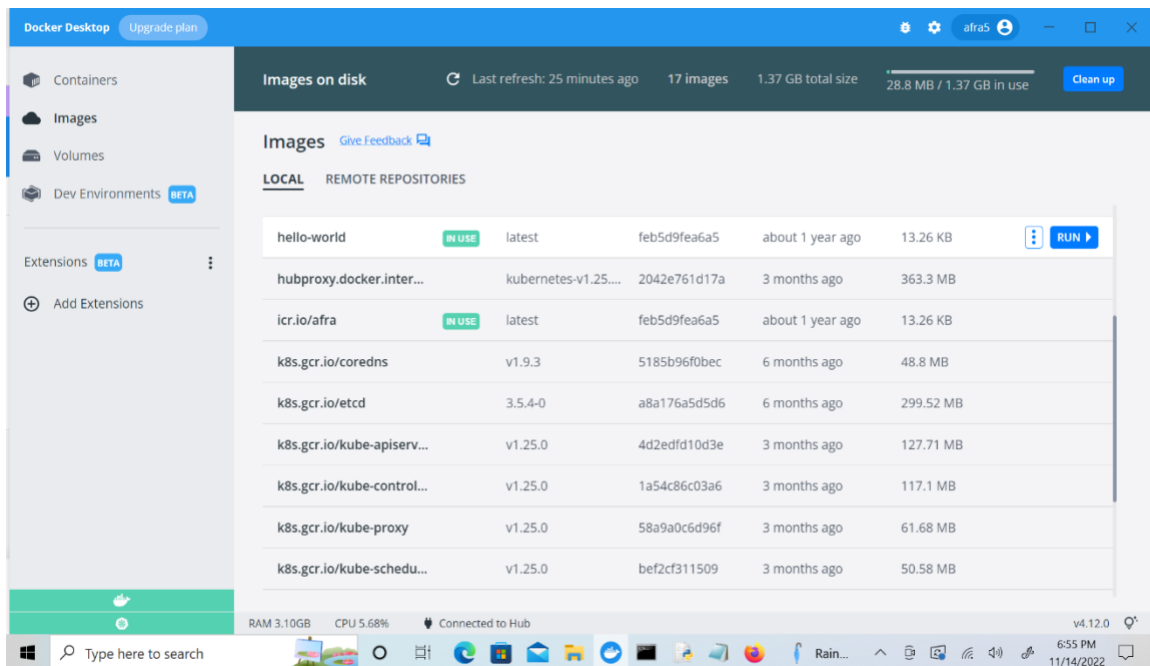


Assignment -4

Assignment Date	14 November 2022
Student Name	AFRA FATHIMA.K
Team ID	PNT2022TMID48189
Maximum Marks	2 Marks

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





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

Dockerfile:

FROM

python:3.6

WORKDIR /app

ADD. /app

COPY requirements.txt /app

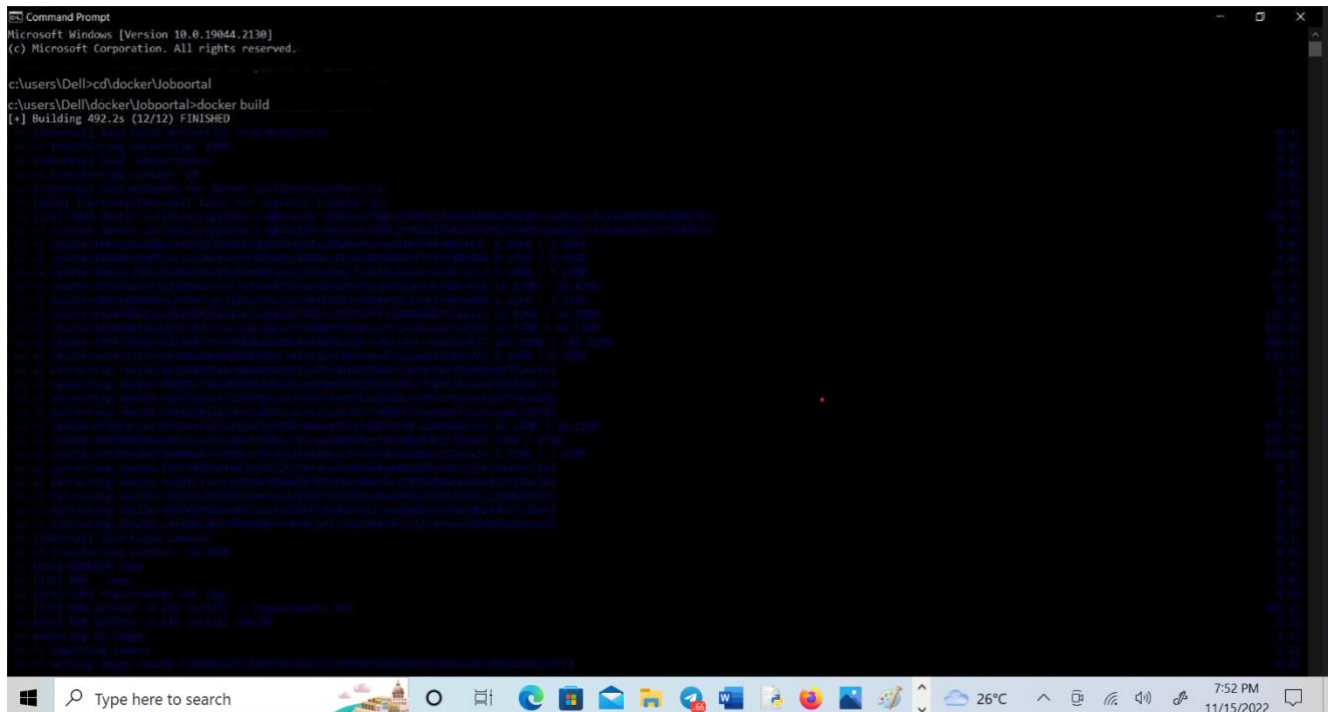
RUN python3 -m pip install -r

requirements.txtRUN python3 -m pip

install ibm_db

EXPOSE 5000

CMD ["python","app.py"]



The screenshot shows a Windows Command Prompt window with the following text:

```
Microsoft Windows [Version 10.0.19044.2130]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Dell>cd\docker\Jobportal
C:\Users\Dell\docker\Jobportal>docker build
[+] Building 492.2s (12/12) FINISHED
```

The output shows the Docker build process, including the creation of the Dockerfile, the addition of the requirements.txt file, and the installation of the dependencies. The build is successful, and the image is ready for deployment.

```
Command Prompt - docker run f3d9015a21f3

c:\users\Dell\docker\Jobportal>docker images
REPOSITORY                                TAG                                IMAGE ID            CREATED             SIZE
k8s.gcr.io/kube-apiserver                 v1.25.0                          2042e761d17a       2 months ago       363MB
k8s.gcr.io/kube-scheduler                 v1.25.0                          4f2edfd10d3e       2 months ago       128MB
k8s.gcr.io/kube-controller-manager        v1.25.0                          be72cf311109       2 months ago       59.6MB
k8s.gcr.io/kube-proxy                     v1.25.0                          1a54c86c03a6       2 months ago       117MB
k8s.gcr.io/pause                          3.8                              58a9a8cd99f        2 months ago       61.7MB
k8s.gcr.io/etcd                           3.5.4-0                          4873874c08ef       4 months ago       711kB
k8s.gcr.io/coredns                       v1.9.3                           a8a176a5d5d6       5 months ago       300MB
docker/desktop-vpnkit-controller          v2.0                             5185b96f0bec       5 months ago       48.8MB
docker/desktop-storage-provisioner        v2.0                             8c2c38aa676e       18 months ago      21MB
docker/desktop-storage-provisioner        v2.0                             99f89471f47b       18 months ago      41.9MB

c:\users\Dell\docker\Jobportal>docker run f3d9015a21f3
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on all addresses.
  WARNING: This is a development server. Do not use it in a production deployment.
* Running on http://172.17.0.2:5000/ (Press CTRL+C to quit)
```

JOBPORTAL | HOME

Not secure | 172.20.10.6:5000/login

Codeforces Facebook - पण रेल... YouTube RARBG Rarbg Index... Twitch Track the TV shows... Gmail Instagram TorrentBD: Welcome Yahoo SkymoviesHDUn [JS... Circle Network]

sheep-logo

LOGOUT REGISTER MY JOBS

Available Jobs

Python

Skills for python

Apply Now

Docker Desktop Upgrade plan

afra5

jovial_proskuriakova f3d9015a21f3

EXITED (137)

Logs Inspect Stats CLI

```
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on all addresses.
  WARNING: This is a development server. Do not use it in a production deployment.
* Running on http://172.17.0.2:5000/ (Press CTRL+C to quit)
```

EXT

RAM 4.89GB CPU 2.44% Connected to Hub v4.12.0

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

```
Command Prompt
Microsoft Windows [Version 10.0.19044.2251]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Dell>ibmcloud login
API endpoint: https://cloud.ibm.com
Region: jp-tok

Email> afrafathimak2001@gmail.com

Password>
Authenticating...
OK

Targeted account Afra Fathima's Account (88c274669d884663b189ea0b9caa1234)

API endpoint: https://cloud.ibm.com
Region: jp-tok
User: afrafathimak2001@gmail.com
Account: Afra Fathima's Account (88c274669d884663b189ea0b9caa1234)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:

C:\Users\Dell>
```

IBM Cloud Container Registry - x

https://cloud.ibm.com/registry/start

IBM Cloud Search resources and products... Catalog Manage Afra Fathima's Account

Container Registry

Quick start OK

Namespaces C:\Users\Dell>docker pull hello-world
Using default tag: latest

Repositories latest: Pulling from library/hello-world
Digest: sha256:faa03e786c97f07ef34423fccceec2398ec8a5759259f94d99078f264e9d7af
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest

Images

Trash C:\Users\Dell>docker tag hello-world uk.icr.io/app1_flask/hello-world:latest

Settings C:\Users\Dell>docker push uk.icr.io/app1_flask/hello-world:latest
The push refers to repository [uk.icr.io/app1_flask/hello-world]
e07ee1baac5f: Pushed
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525

C:\Users\Dell>ibmcloud cr image-list
Listing images...

Repository	Tag	Digest	Namespace	Created	Size	Security status
uk.icr.io/app1_flask/hello-world	latest	f54a58bc1aac	app1_flask	1 year ago	2.5 kB	-

OK

C:\Users\Dell>

Learn about other ways to store images in your namespace.
Find information about potential security issues and vulnerabilities.
Review your service plan and quota usage.

IBM Cloud Container Registry · x

https://cloud.ibm.com/registry/repos

IBM Cloud

Search resources and products...

CatalogManageAfra Fathima's Account

Container Registry

Quick start

Namespaces1

Repositories1

Images1

Trash0

Settings

Repositories

Location

London

Search

Create

Name	Image count	Namespace	Last updated
<div>hello-world</div> <div>uk.icr.io/app1_flask/hello-world</div>	1	app1_flask	416 days ago

Items per page: 251-1 of 1 item11 of 1 page

Type here to search

25°C

8:29 PM

11/13/2022

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

