IBM – Nutrition Assistant Application

Assignment – 4

Pranitha V S

19Z233

IV BE CSE G1

Date	12 November 2022
Team ID	PNT2022TMID12518
Project Name	Project – Nutrition Assistant Application
Maximum Marks	8 Marks

1) Pull an Image from docker hub and run it in docker playground.
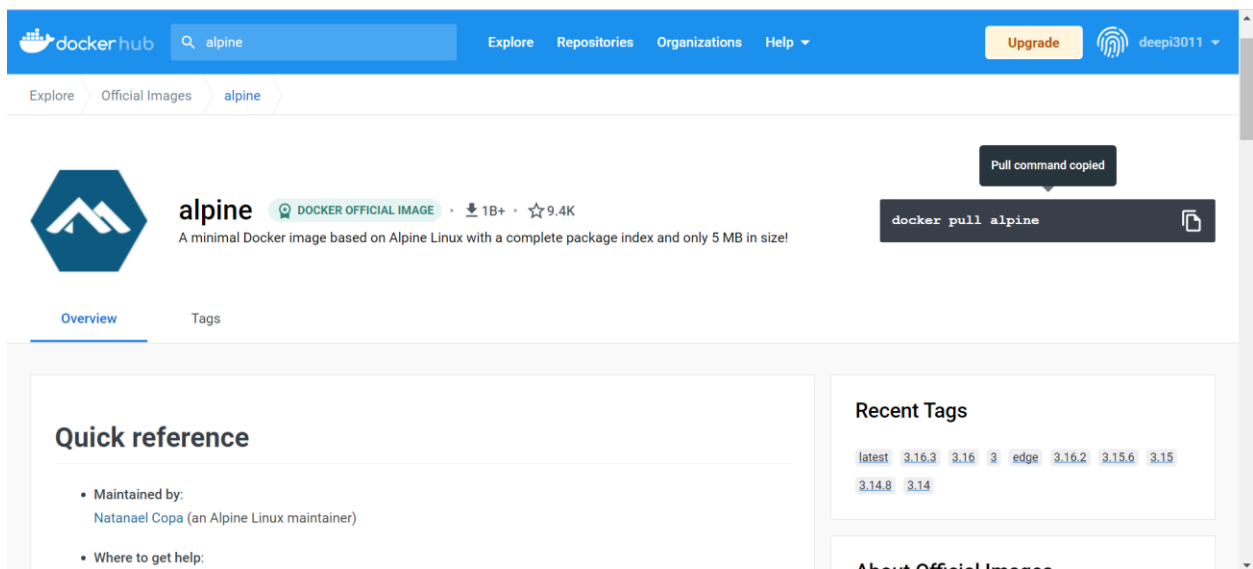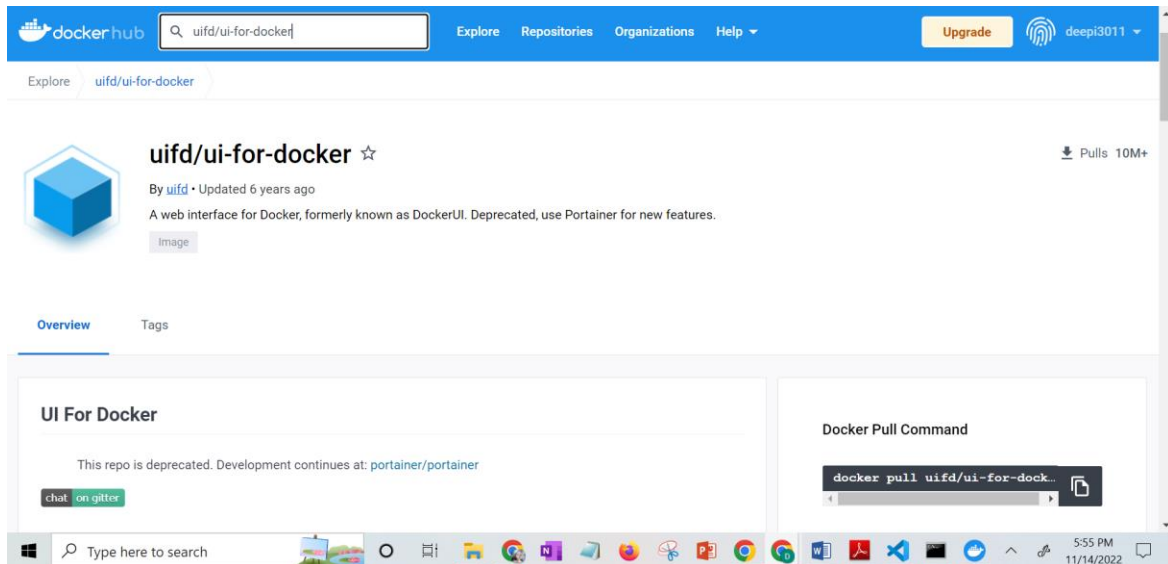
```
C:\Users\Deepu>docker images
REPOSITORY    TAG       IMAGE ID   CREATED   SIZE

C:\Users\Deepu>docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
841194d080c8: Pull complete
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd4c0b834cbadf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest

C:\Users\Deepu>docker images
REPOSITORY            TAG        IMAGE ID      CREATED       SIZE
uifd/ui-for-docker    latest     965940f98fa5  6 years ago   8.1MB

C:\Users\Deepu>docker pull alpine
Using default tag: latest
latest: Pulling from library/alpine
ca7dd9ec2225: Pull complete
Digest: sha256:b95359c2505145f16c6aa384f9cc74eeff78eb36d308ca4fd902eeeb0a0b161b
Status: Downloaded newer image for alpine:latest
docker.io/library/alpine:latest

C:\Users\Deepu>docker images
REPOSITORY            TAG        IMAGE ID      CREATED       SIZE
alpine                latest     bfe296a52501  2 days ago    5.54MB
uifd/ui-for-docker    latest     965940f98fa5  6 years ago   8.1MB

C:\Users\Deepu>
```

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

Dockerfile - Notepad

File   Edit   Format   View   Help

```
FROM python:3.6
WORKDIR /app
ADD . /app
COPY requirements.txt /app
RUN python3 -m pip install -r requirements.txt
RUN python3 -m pip install ibm_db
EXPOSE 5000
CMD ["python","app.py"]
```

```
Command Prompt                                                    —   □   ✕

Status: Downloaded newer image for alpine:latest
docker.io/library/alpine:latest

C:\Users\Deepu>docker images
REPOSITORY          TAG        IMAGE ID       CREATED       SIZE
alpine              latest     bfe296a52501   2 days ago    5.54MB
uifd/ui-for-docker  latest     965940f98fa5   6 years ago   8.1MB

C:\Users\Deepu>docker pull sandeepdoodigani/jobportalapp
Using default tag: latest
latest: Pulling from sandeepdoodigani/jobportalapp
0e29546d541c: Pull complete
9b829c73b52b: Pull complete
cb5b7ae36172: Pull complete
6494e4811622: Pull complete
6f9f74896dfa: Pull complete
5e3b1213efc5: Pull complete
9fddfdc56334: Pull complete
404f02044bac: Pull complete
c4f42be2be53: Pull complete
296c00cdb64e: Pull complete
86df5f9cfbe4: Pull complete
b0a57da07333: Pull complete
96d74d4156fd: Pull complete
778a951e5719: Pull complete
Digest: sha256:e8590bc86f5d2ef2f85536f570fe49a5fec2893ebfd146f5aa63dcde9f9bdd24
Status: Downloaded newer image for sandeepdoodigani/jobportalapp:latest
docker.io/sandeepdoodigani/jobportalapp:latest

C:\Users\Deepu>
```

```
E:\IBM-nutrition assistant\job-portal-main>docker tag testjob1 deepi3011/testjob1

E:\IBM-nutrition assistant\job-portal-main>docker push deepi3011/testjob1
Using default tag: latest
The push refers to repository [docker.io/deepi3011/testjob1]
65ab172417f4: Pushed
d407c9a42555: Pushed
00a34eee210f: Pushed
fff74feb31f8: Pushed
26ddb0ed3d6f: Pushed
aa4c808c19f6: Mounted from library/python
8ba9f690e8ba: Mounted from library/python
3e607d59ef9f: Mounted from library/python
1e18e7e1fcc2: Mounted from library/python
c3a0d593ed24: Mounted from library/python
26a504e63be4: Mounted from library/python
8bf42db0de72: Mounted from library/python
31892cc314cb: Mounted from library/python
11936051f93b: Mounted from library/python
latest: digest: sha256:f563f3d4c85fc3fb53ef68d6fc18010283b5f6f76a9307a87da1a6f6251dd0c9 size: 3260

E:\IBM-nutrition assistant\job-portal-main>
```

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

```
C:\Users\HP>docker tag hello-world pranitha2310/helloworld

C:\Users\HP>docker push pranitha2310/helloworld
Using default tag: latest
The push refers to repository [docker.io/pranitha2310/helloworld]
e07ee1baac5f: Mounted from library/hello-world
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
```

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.