

Assignment -4

Assignment Date	18 November 2022
Student Name	Amal M
Student Roll Number	912819104009
Maximum Marks	2 Marks

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

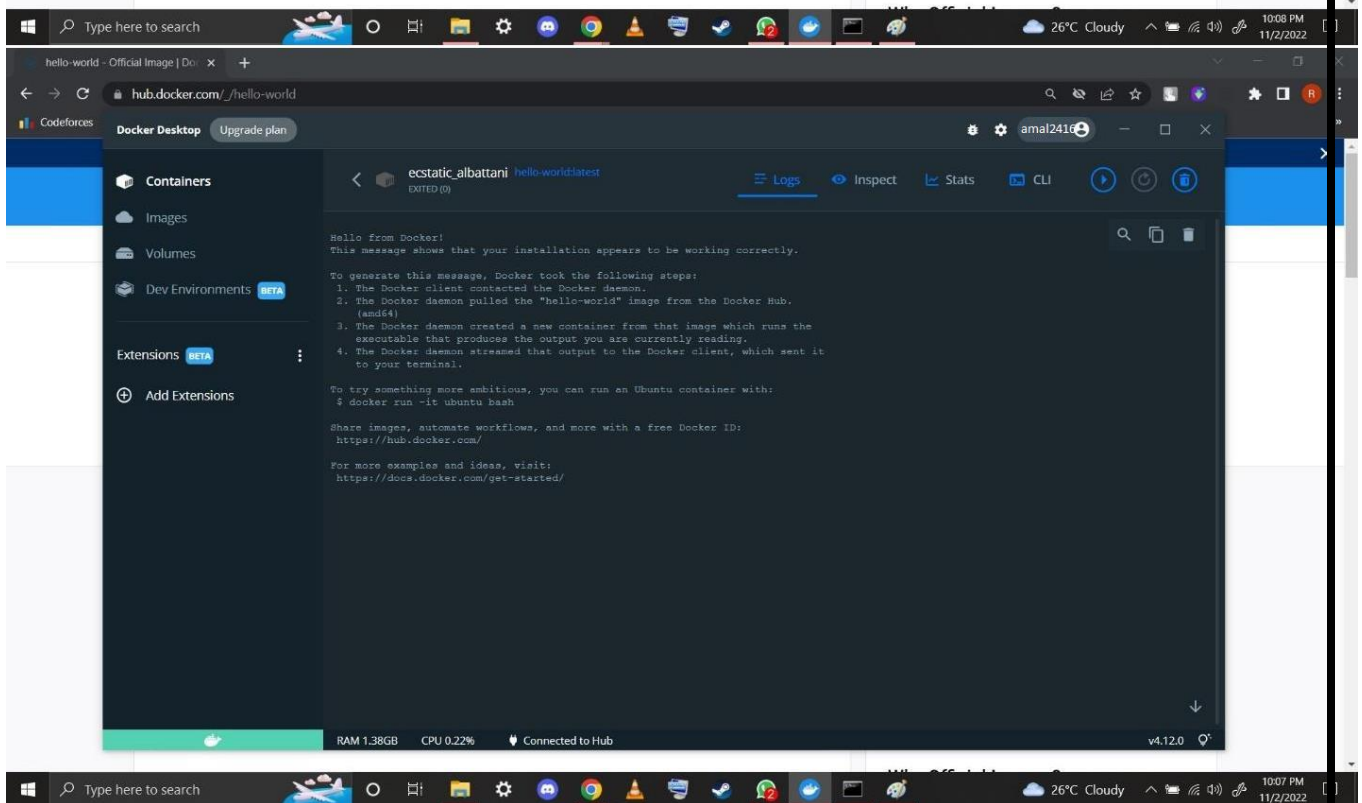
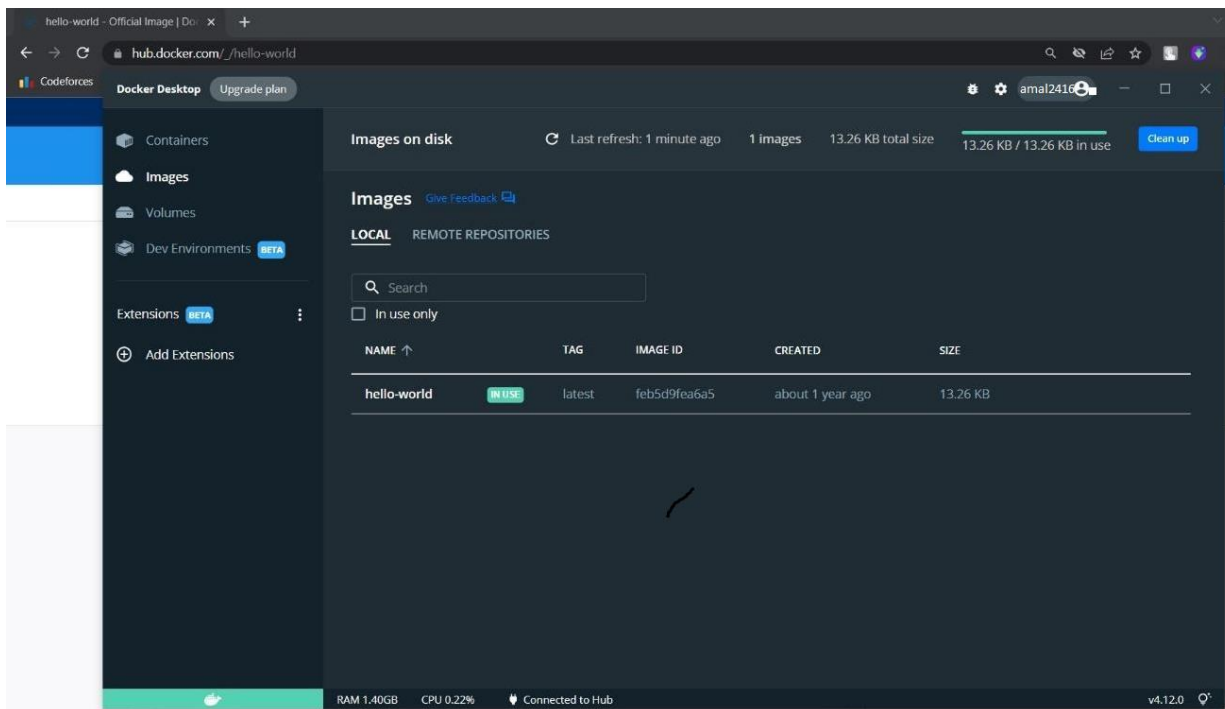
The screenshot displays a web browser window showing the Docker Hub page for the 'hello-world' image. The page includes the Docker Hub logo, a search bar, and navigation links. The 'hello-world' image is highlighted, showing its description: 'Hello World! (an example of minimal Dockerization)'. Below this, there is a 'Quick reference' section with links to 'Maintained by' (the Docker Community) and 'Where to get help' (the Docker Community Slack, Server Fault, Unix & Linux, or Stack Overflow). A section titled 'Supported tags and respective Dockerfile links' is also visible.

Overlaid on the browser window is a Windows Command Prompt window. It shows the following commands and output:

```
C:\Users\Assig>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

C:\Users\Assig>
```

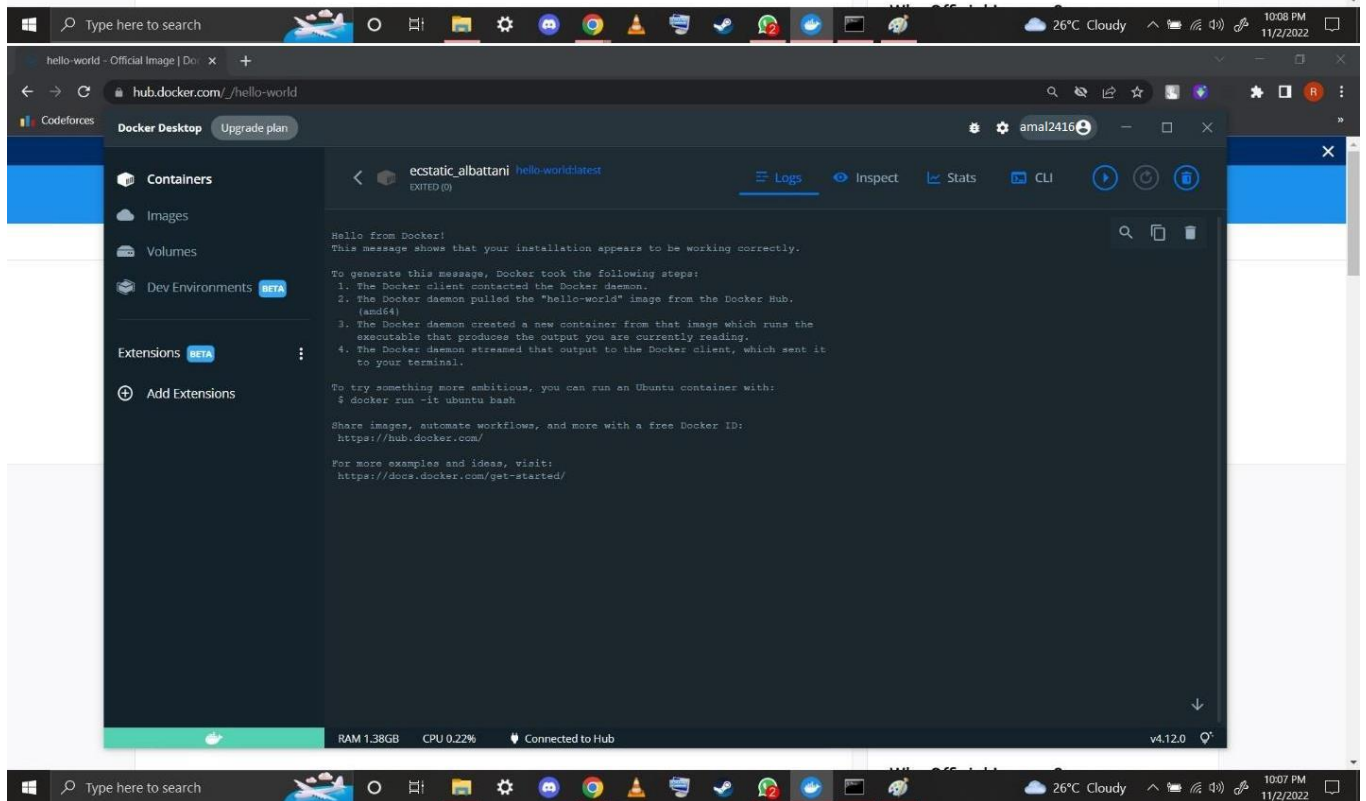
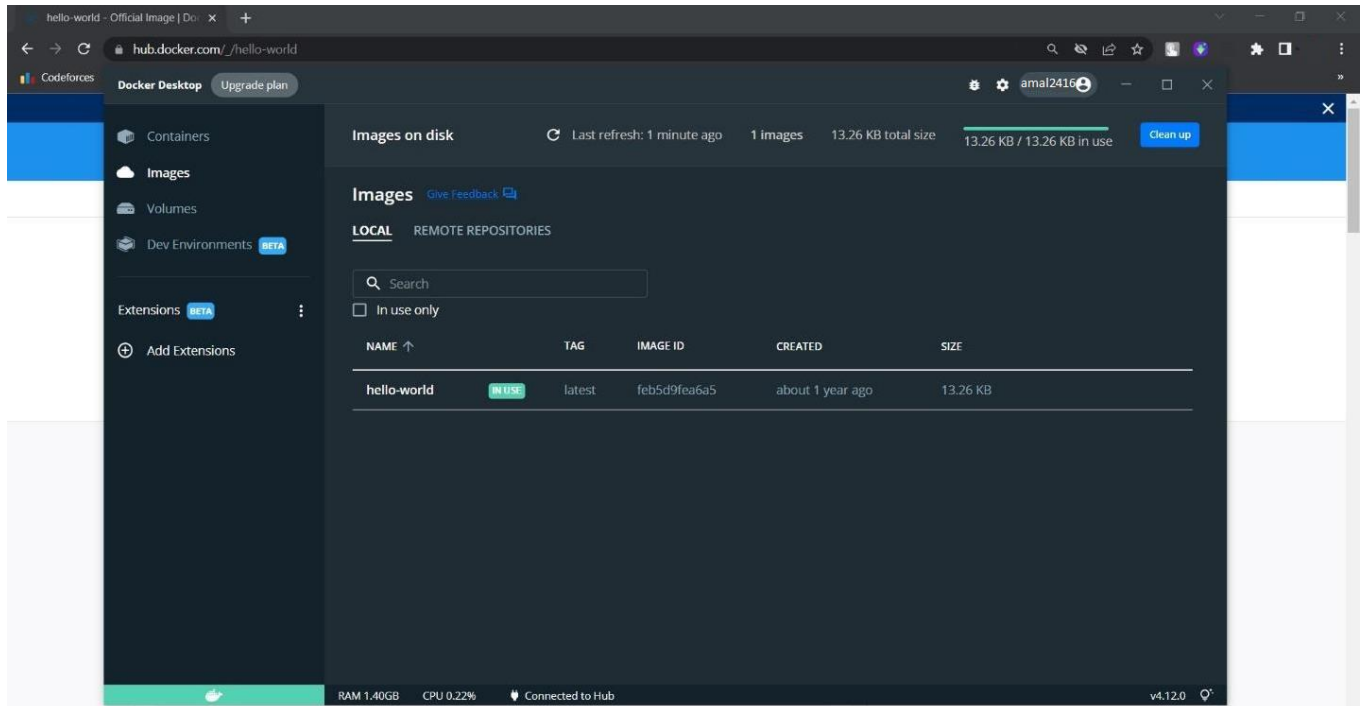
The Windows taskbar at the bottom shows the system clock as 10:05 PM on 11/2/2022, and the weather as 26°C Cloudy.



2. Create a docker file for the job and skill recommender 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","app1.py"]
```



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

C:\Users\Assig>cd C:\Users\Assig\Desktop\IBM-Project\Jobportal

C:\Users\Assig\Desktop\IBM-Project\Jobportal>docker build .
[+] Building 492.2s (12/12) FINISHED
    <[...]
```

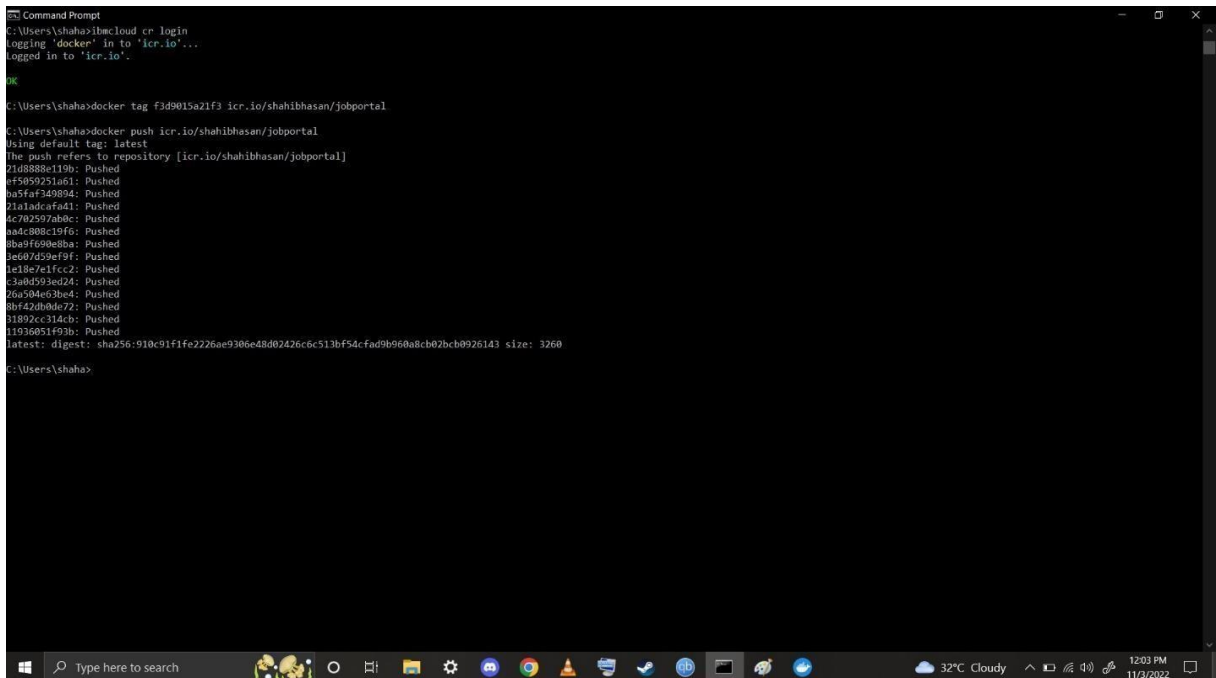
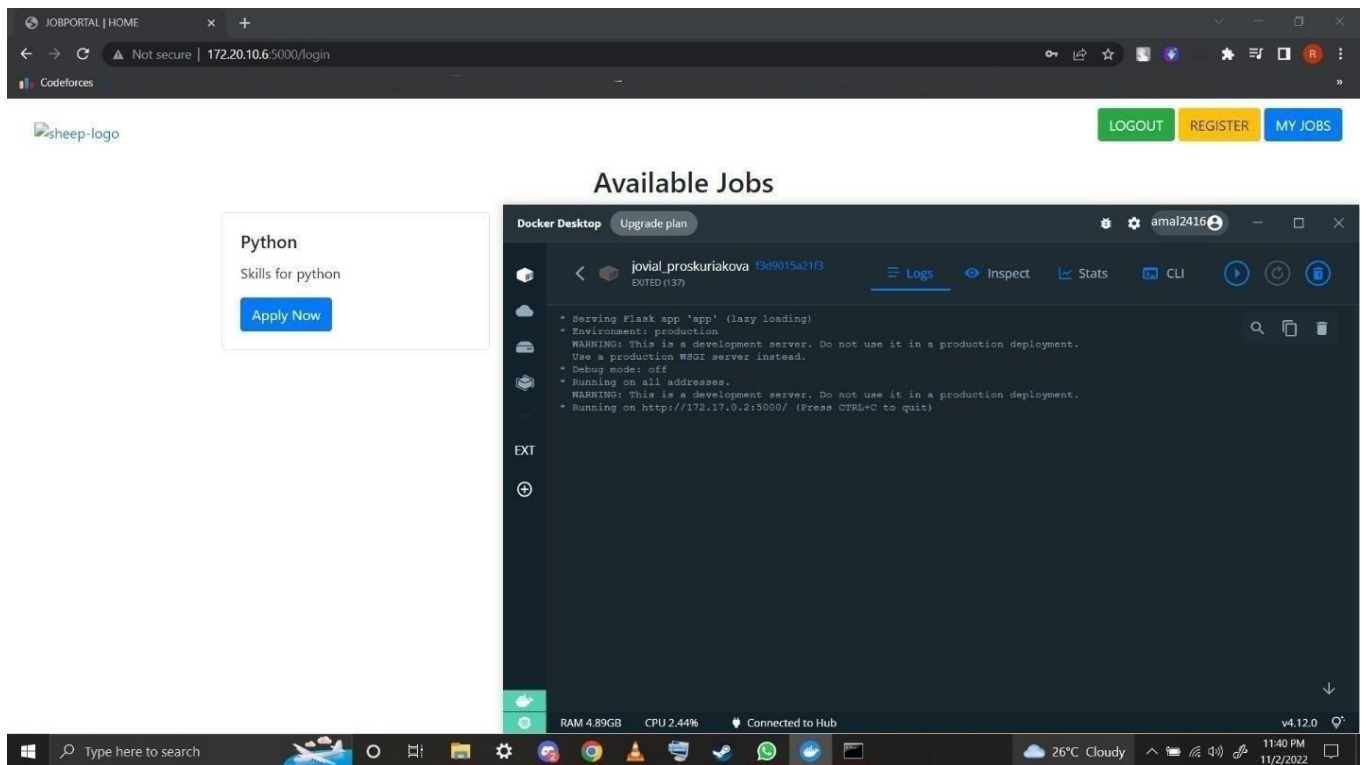
Use "docker scan" to run Snyk tests against images to find vulnerabilities and learn how to fix them

```
C:\Users\assig\Desktop\IBM-Project\Jobportal>
```

```
C:\Users\Assig\Desktop\IBM-Project\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                           bef2cf311509  2 months ago  50.6MB
k8s.gcr.io/kube-controller-manager        v1.25.0                           1a54c06c9366  2 months ago  117MB
k8s.gcr.io/kube-proxy                     v1.25.0                           58a9a0c6d9ef  2 months ago  61.7MB
k8s.gcr.io/pause                           3.8                                4873874c98ef  4 months ago  711kB
k8s.gcr.io/etcd                            3.5.4-0                           a8a176a5d5d6  5 months ago  300MB
k8s.gcr.io/coredns                         v1.9.3                             5185b96f0bec  5 months ago  48.8MB
docker/desktop-vpnkit-controller           v2.0                               8c2c38aa676e  18 months ago  21MB
docker/desktop-storage-provisioner         v2.0                               99f89471f470  18 months ago  41.9MB

C:\Users\Assig\Desktop\IBM-Project\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)
```

3. Create a IBM container registry and deploy job and skill recommender app.



IBM Cloud Container Registry - P x

cloud.ibm.com/registry/repos

CodeforcesFacebookবঙ্গবন্ধু...YouTubeRARBG Rarbg Index...TwitchTrack the TV shows...GmailInstagramTorrentBD: WelcomeYahooSkymoviesHD.in [JS...Circle Network]

IBM Cloud

Search resources and products...

CatalogManageRaad Chowdhury's Acc...

Container Registry

Quick start

Namespaces1

Repositories1

Images1

Trash0

Settings


Repositories

Location

Global

Search

Create +

	Name	Image count	Namespace	Last updated
▼	 jobportal lcr.io/shahibhasan/jobportal	1	shahibhasan	১ দিন আগে

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

Type here to search

32°C Cloudy12:04 PM11/3/2022

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

