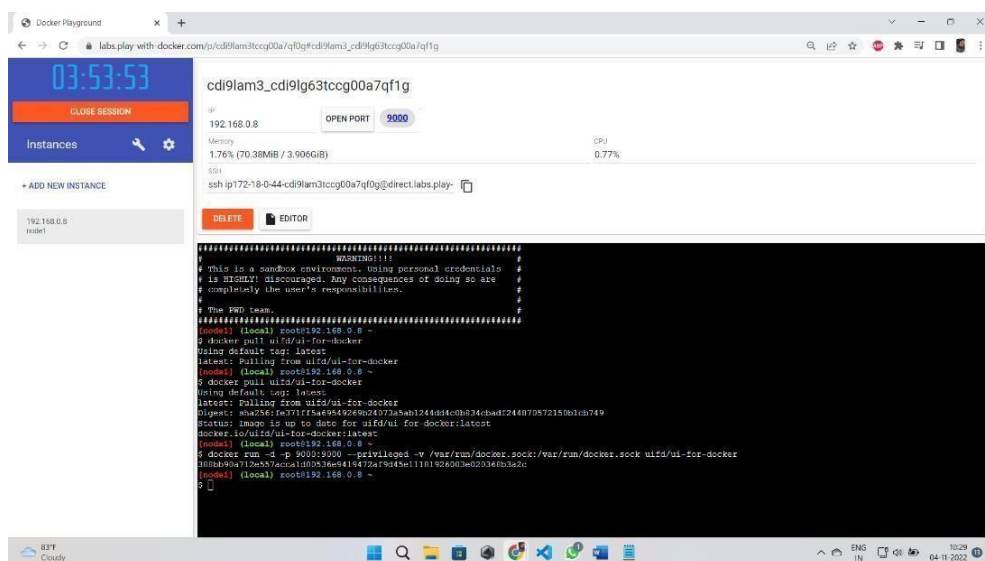
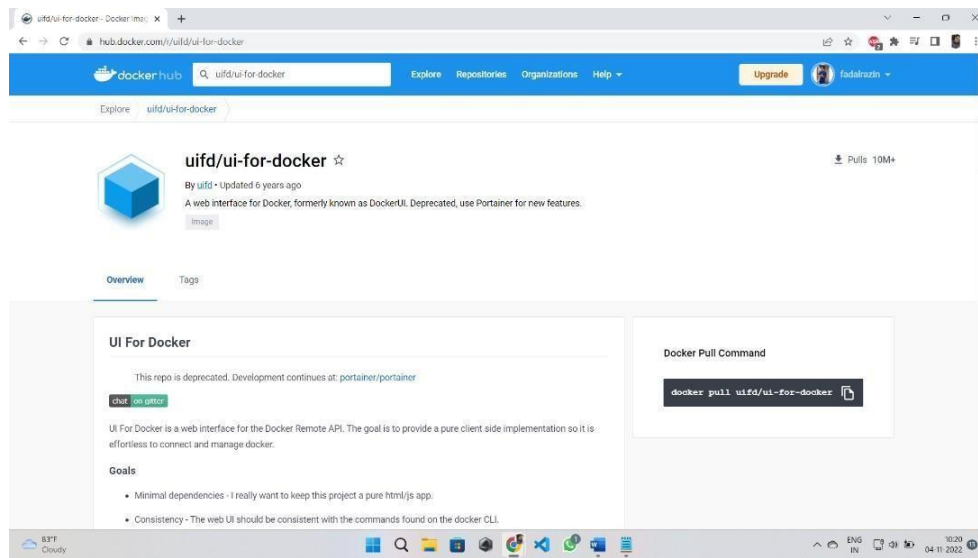


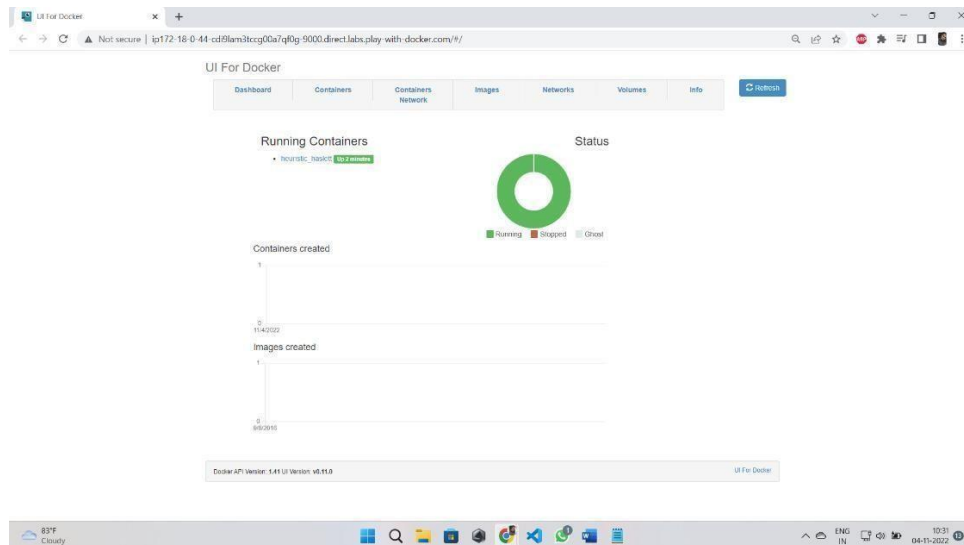
Assignment – 4

Docker and Kubernetes

Date	02 November 2022
Team ID	PNT2022TMID47816
Project Name	Inventory Management System for Retailers
Batch No	B8-2A4E

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





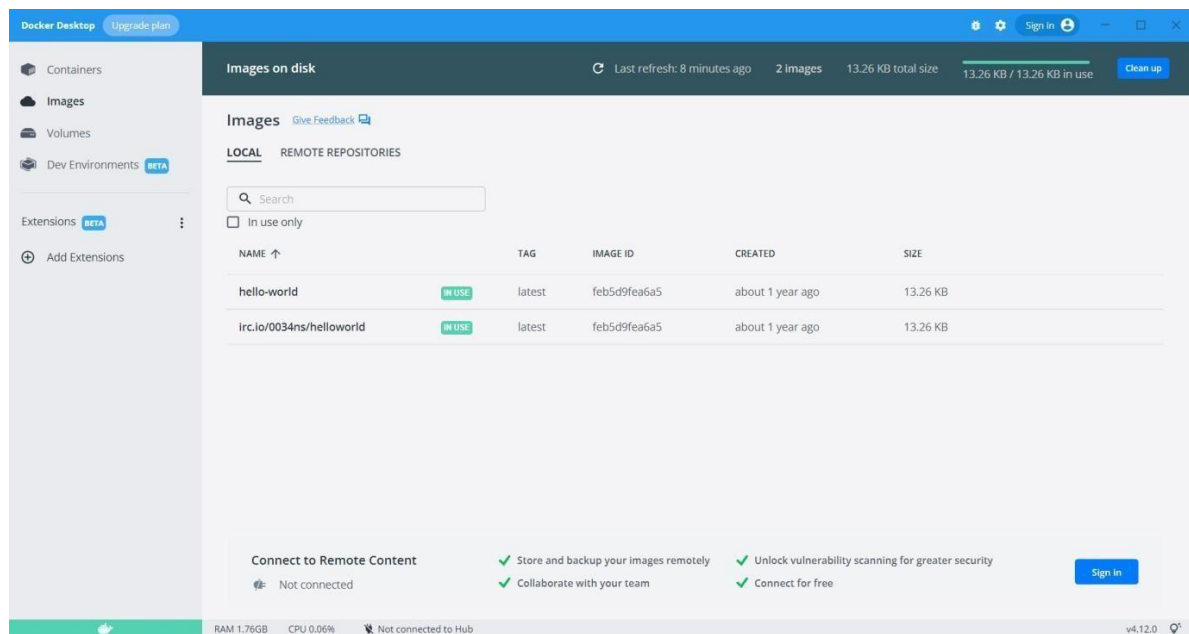
2. Create a docker file for the job portal application and deploy it in Docker desktop application.

```
1 FROM helloworld:latest
2 WORKDIR ~/Desktop/
3 ADD . helloworld/
4 WORKDIR ~/Desktop/htmlfile
5 RUN pip install -r requirements
6 RUN chmod +x app.sh
7 CMD ["/bin/sh", "app.sh"]
```

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

```
PS C:\Users\HP> docker tag hello-world icr.io/0034ns/helloworld
PS C:\Users\HP> docker push icr.io/0034ns/helloworld
Using default tag: latest
The push refers to repository [icr.io/0034ns/helloworld]
e07ee1baac5f: Pushed
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
```

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



The screenshot shows the Docker Desktop application window. The left sidebar contains navigation options: Containers, Images, Volumes, Dev Environments (with a BETA badge), Extensions (with a BETA badge), and Add Extensions. The main panel is titled 'Images on disk' and shows a summary: 'Last refresh: 8 minutes ago', '2 Images', '13.26 KB total size', and '13.26 KB / 13.26 KB in use'. Below this, the 'Images' section is active, displaying a table of local images. The table has columns for NAME, TAG, IMAGE ID, CREATED, and SIZE. Two images are listed: 'hello-world' and 'icr.io/0034ns/helloworld', both with the 'latest' tag and a size of 13.26 KB. At the bottom, there is a 'Connect to Remote Content' section with three green checkmarks indicating successful connections to remote repositories, and a 'Sign in' button. The status bar at the very bottom shows 'RAM 1.76GB', 'CPU 0.06%', and 'Not connected to Hub'.

NAME	TAG	IMAGE ID	CREATED	SIZE
hello-world	latest	feb5d9fea6a5	about 1 year ago	13.26 KB
icr.io/0034ns/helloworld	latest	feb5d9fea6a5	about 1 year ago	13.26 KB