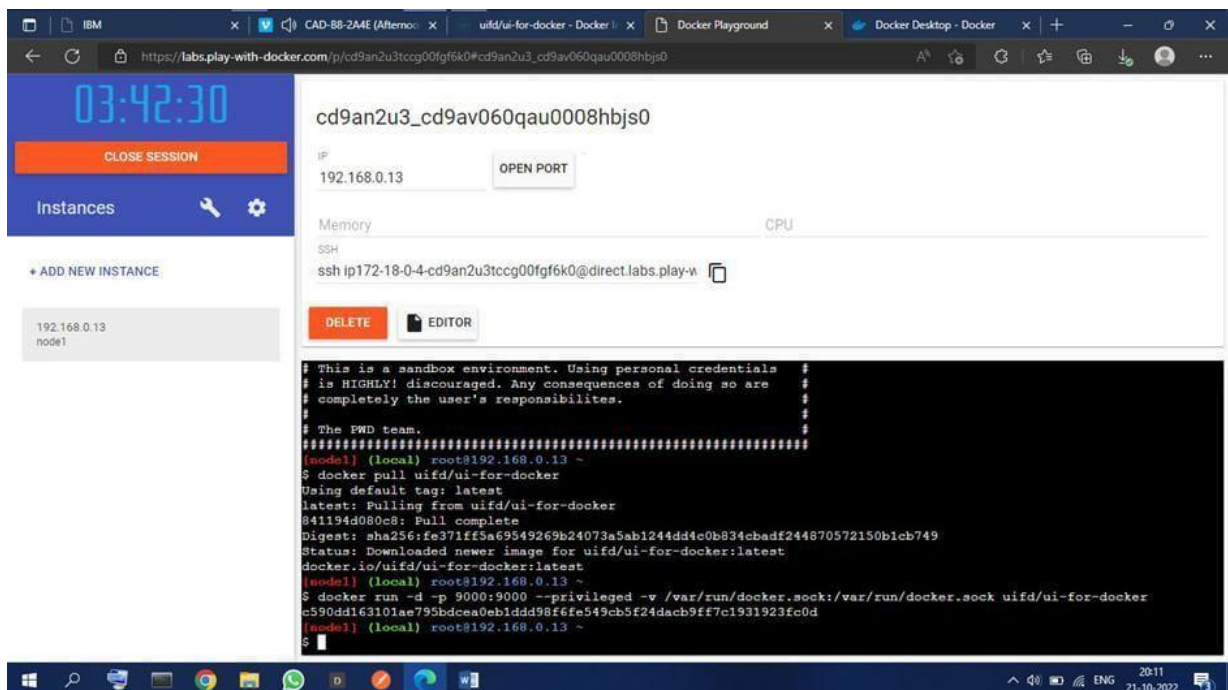
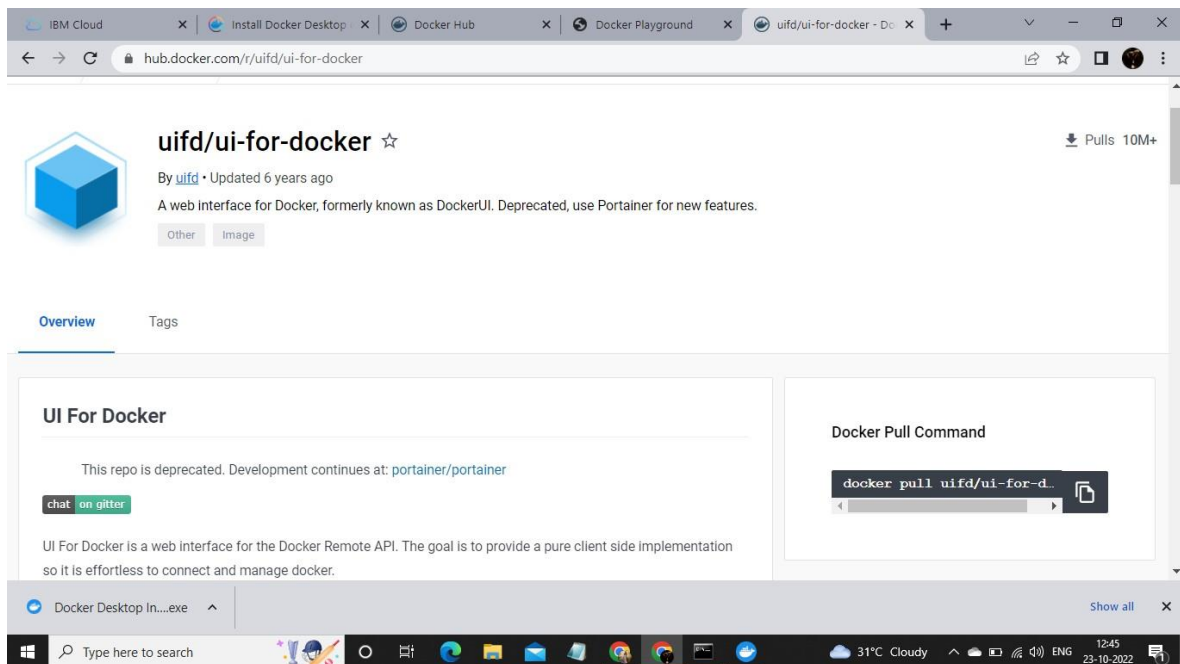


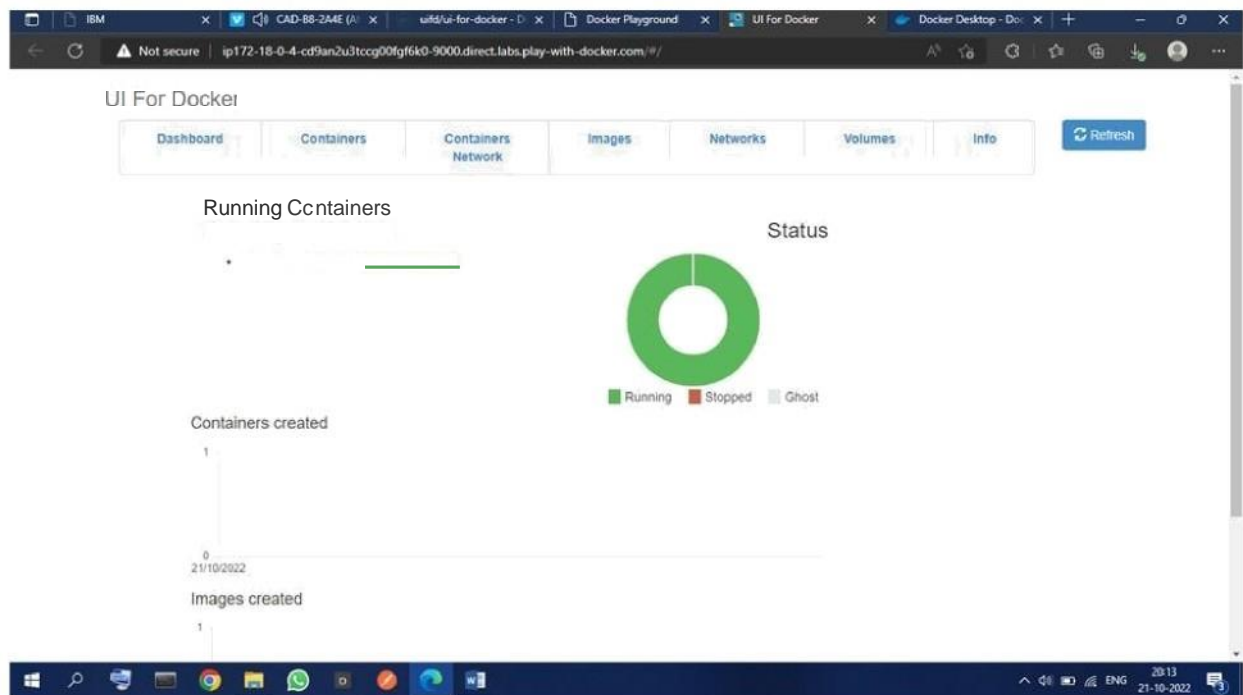
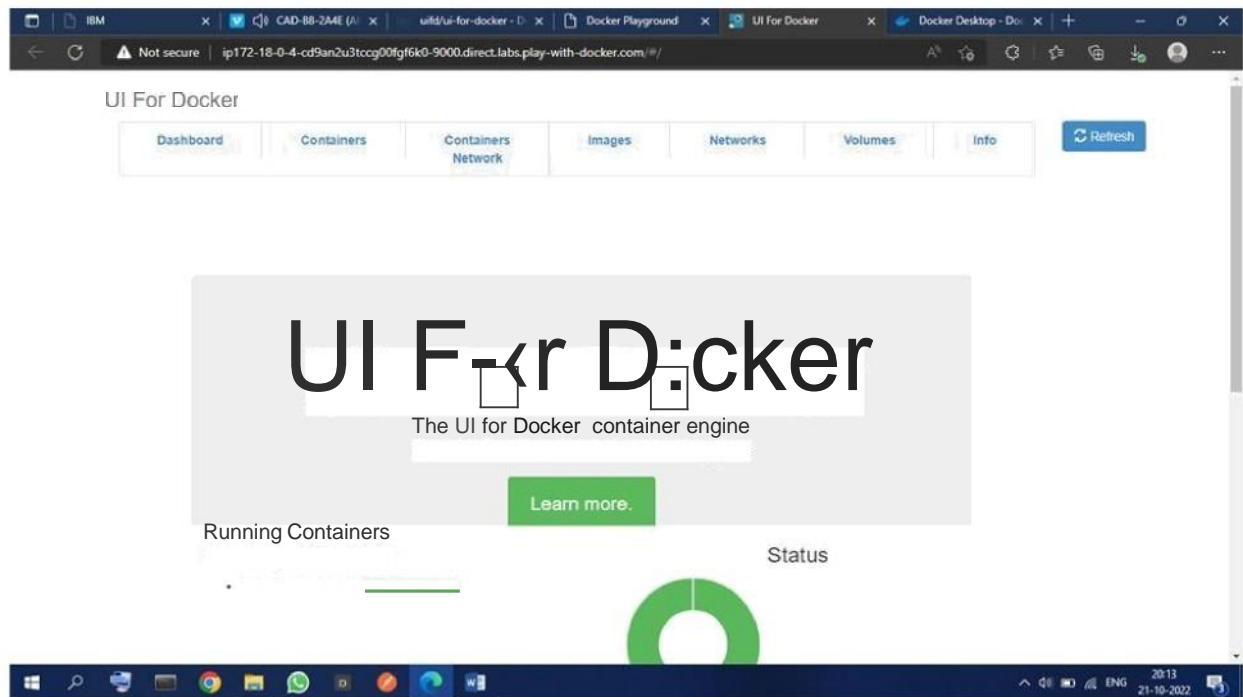
DOCKER AND KUBERNETES

Assignment Date	21 October 2022
Student Name	BEULA B
Student Roll Number	613019104010
Team ID	PNT2022TMID30533
Maximum Marks	2 Marks

Question 1:

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





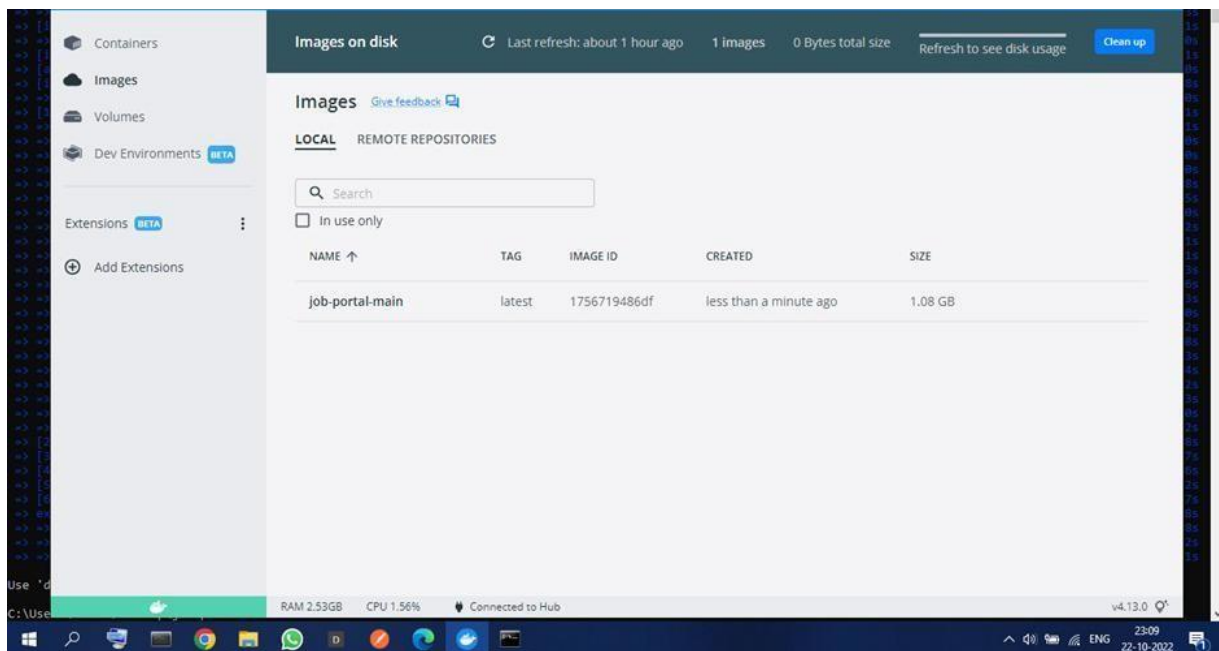
Question 2:

Create a docker file for the job portal application and deploy it in Docker Desktop Application

```
C:\Windows\System32\cmd.exe
-> [internal] load build definition from Dockerfile
-> -- transferring dockerfile: 32B
-> [internal] load .dockerignore
-> -- transferring context: 2B
-> [internal] load metadata for docker.io/library/python:3.6
[auth] library/python:pull token for registry-1.docker.io
-> [internal] load build context
-> -- transferring context: 687B
-> [1/6] FROM docker.io/library/python:3.6@sha256:f8652afaf8bc25fbd22354d547d892591067aa4026a7fa9a6819df9f300af6fc
-> resolve docker.io/library/python:3.6@sha256:f8652afaf8bc25fbd22354d547d892591067aa4026a7fa9a6819df9f300af6fc
-> sha256:f8652afaf8bc25fbd22354d547d892591067aa4026a7fa9a6819df9f300af6fc 1.86kB / 1.86kB
-> sha256:d097a4007a8ec078df5ac31872359c2de510f82214c0448e826393b376d3b60d 2.22kB / 2.22kB
-> sha256:5426803807c5eaa04c6e21f1809a0bc048e077634c009208af7f1f344b104 9.27kB / 9.27kB
-> sha256:0e295462c44c0bd092b1d11a759d1db72685c1b59b74f720409e0b77ade13 54.32kB / 54.32kB
-> sha256:90829c73652b07b97d5c87a54fb8f3a921995a296c714b51a32ae67019231fd 5.15kB / 5.15kB
-> sha256:c5b7ae36172f479eca53f5823ed71baa5d61d5d95cd5a95ab53d740cdd56 10.87kB / 10.87kB
-> sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793 54.57kB / 54.57kB
-> sha256:0f9f74800dfaf3fe0172f594fab85e0b4e8a0481a0efdf0112efc7e4d3c78f7 196.51kB / 196.51kB
-> sha256:5e3b3123efc56598e78bd602963945c164de2a37205e06a62dad823124dc743 6.29kB / 6.29kB
-> extracting sha256:0e295462c44c0bd092b1d11a759d1db72685c1b59b74f720409e0b77ade13
-> sha256:9fd0f9c5e33af2e0efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 14.21kB / 14.21kB
-> extracting sha256:0e295462c44c0bd092b1d11a759d1db72685c1b59b74f720409e0b77ade13
-> extracting sha256:c5b7ae36172f479eca53f5823ed71baa5d61d5d95cd5a95ab53d740cdd56
-> sha256:404f02044bac0432ca522cb0f254b191fcea8006f0ef0b0e0243b2f31bab7 235B / 235B
-> sha256:c4f42be3be3b900ebff04dc1df13de53843ccc5f5d954a56848a0109a3a3f 2.21kB / 2.21kB
-> extracting sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e6f15c01aade718793
-> extracting sha256:0f9f74800dfaf3fe0172f594fab85e0b4e8a0481a0efdf0112efc7e4d3c78f7
-> sha256:5e3b3123efc56598e78bd602963945c164de2a37205e06a62dad823124dc743
-> extracting sha256:9fd0f9c5e33af2e0efad7e241bf5e7459c40ed105c5478676f41c1244bd96752
-> sha256:404f02044bac0432ca522cb0f254b191fcea8006f0ef0b0e0243b2f31bab7
-> extracting sha256:c4f42be3be3b900ebff04dc1df13de53843ccc5f5d954a56848a0109a3a3f
[2/6] WORKDIR /app
-> [3/6] ADD . /app
-> [4/6] COPY requirements.txt /app
-> [5/6] RUN python3 -m pip install -r requirements.txt
-> [6/6] RUN python3 -m pip install lm_db
-> exporting to image
-> exporting layers
-> using image sha256:1756719486df003fad1dae385c5221513f2ff2d1b49a80242b22a2bf0379f19
-> naming to docker.io/library/job-portal-main

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

C:\Users\VK-PC\Desktop\job-portal-main>
```



Question 3:

Create an 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
```

Question 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 node port.

