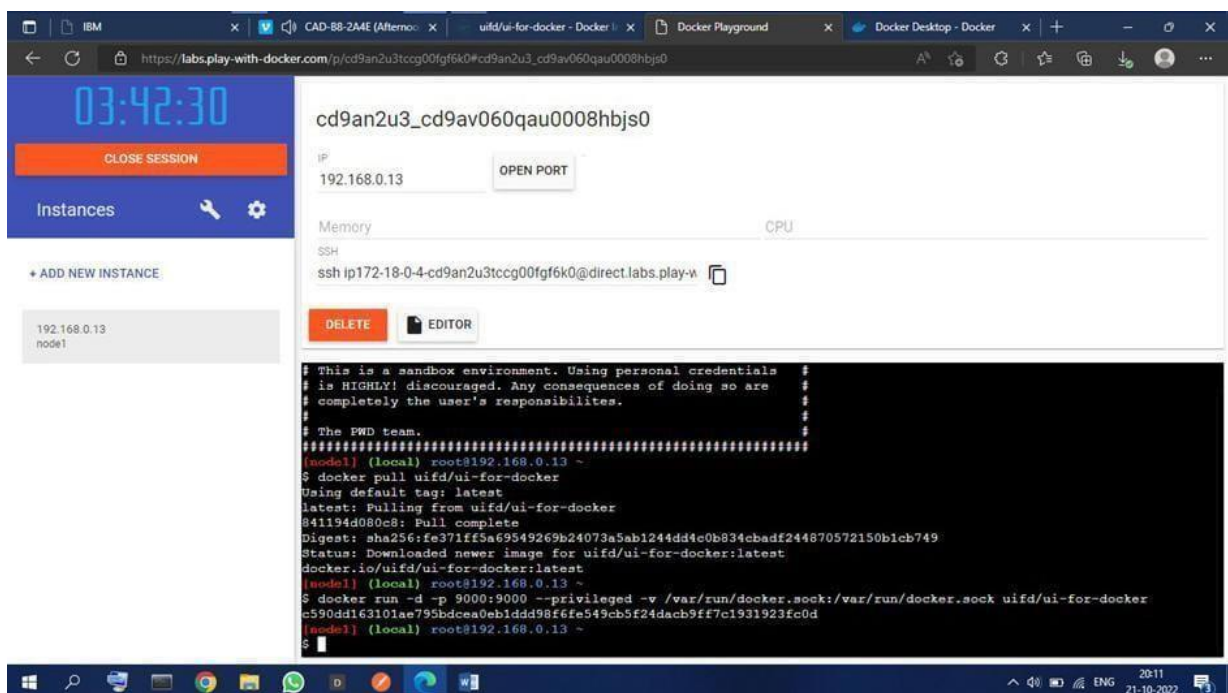
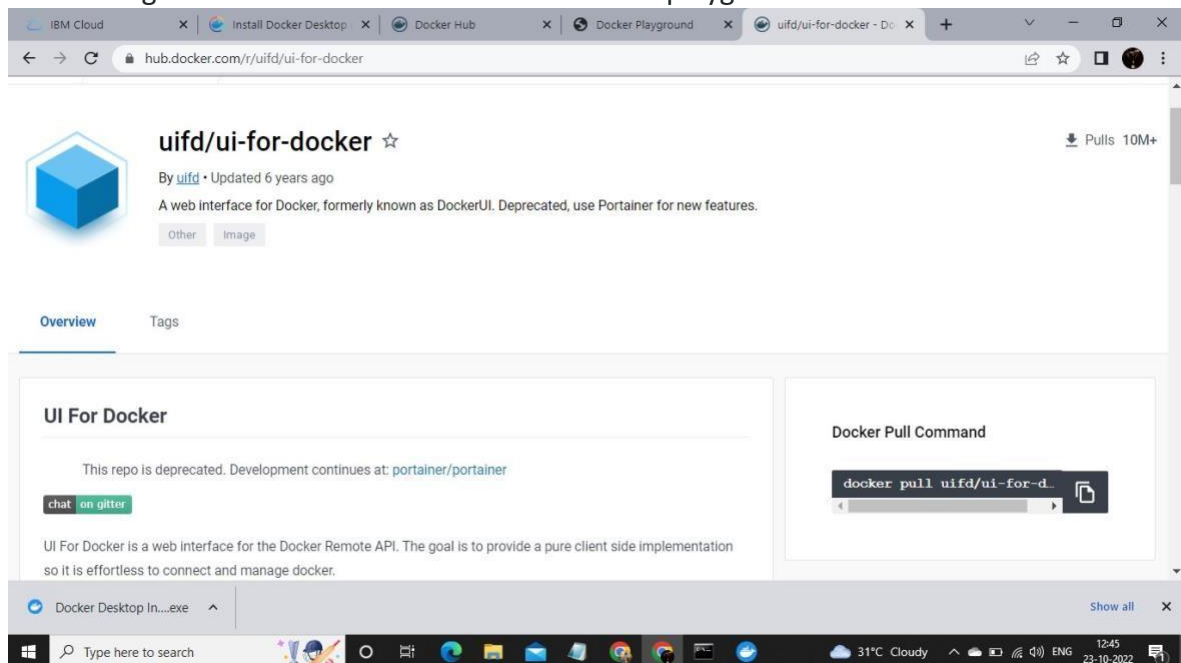


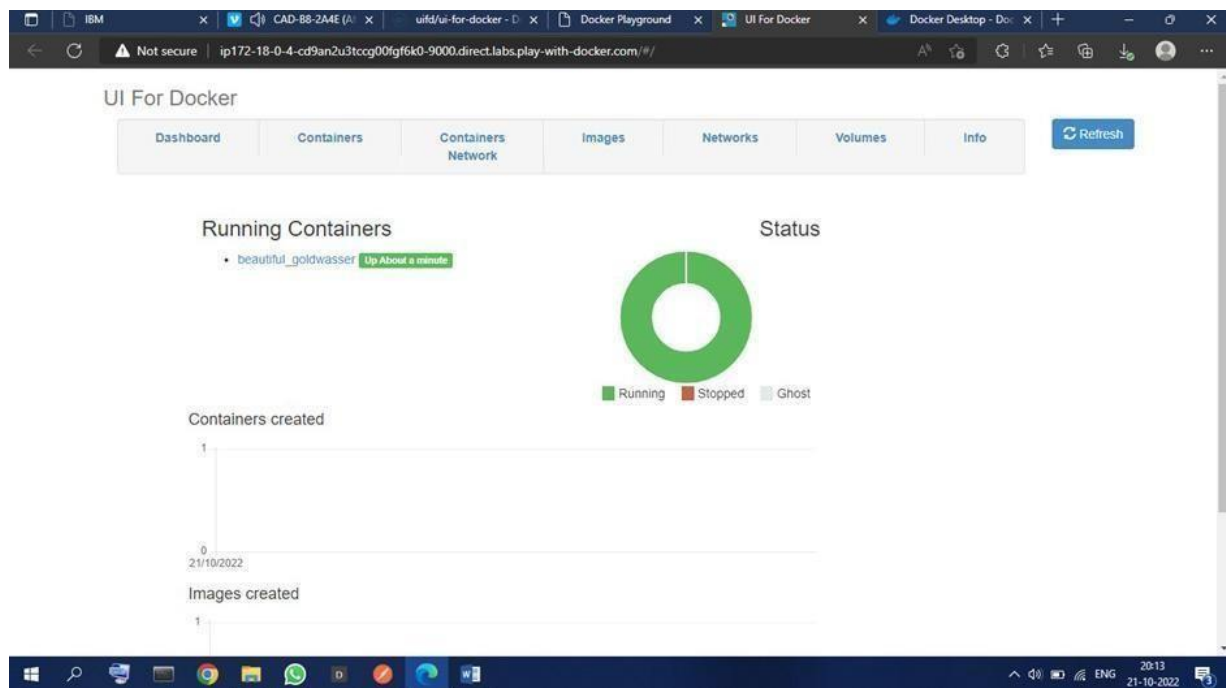
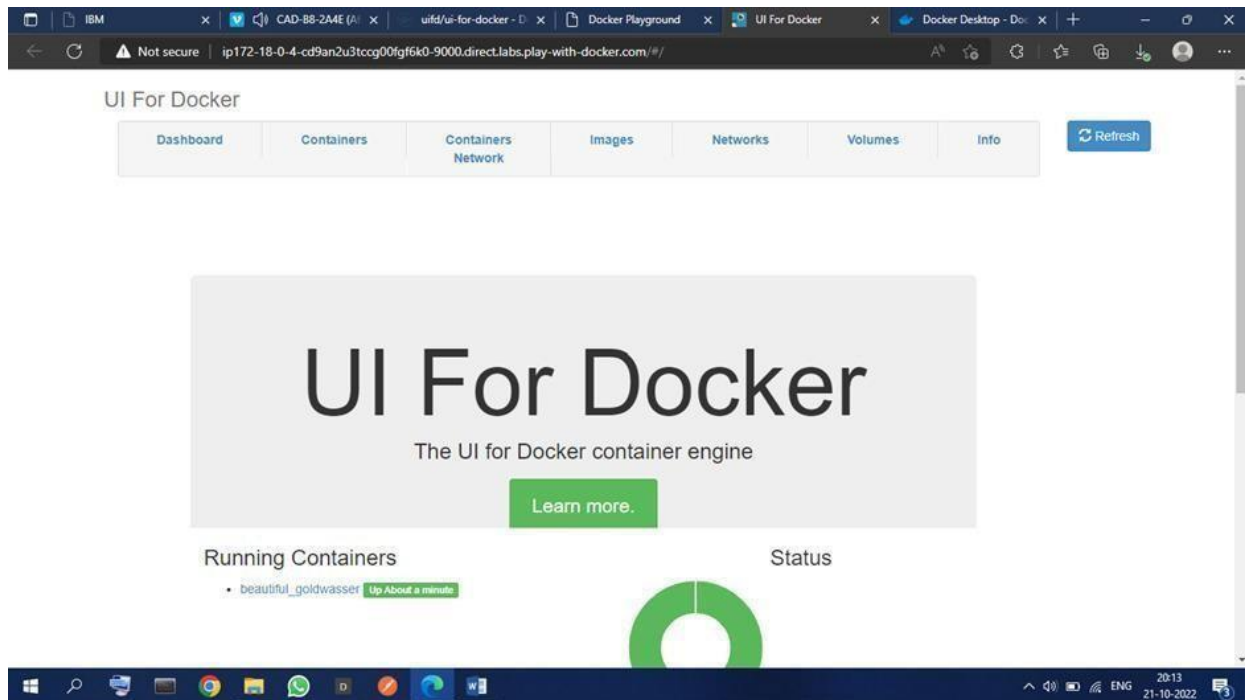
DOCKER AND KUBERNETES

Assignment Date	21October2022
Student Name	M.Dharani
StudentRoll Number	613019205007
Team ID	PNT2022TMID30734
Maximum Marks	2Marks

Question1:

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





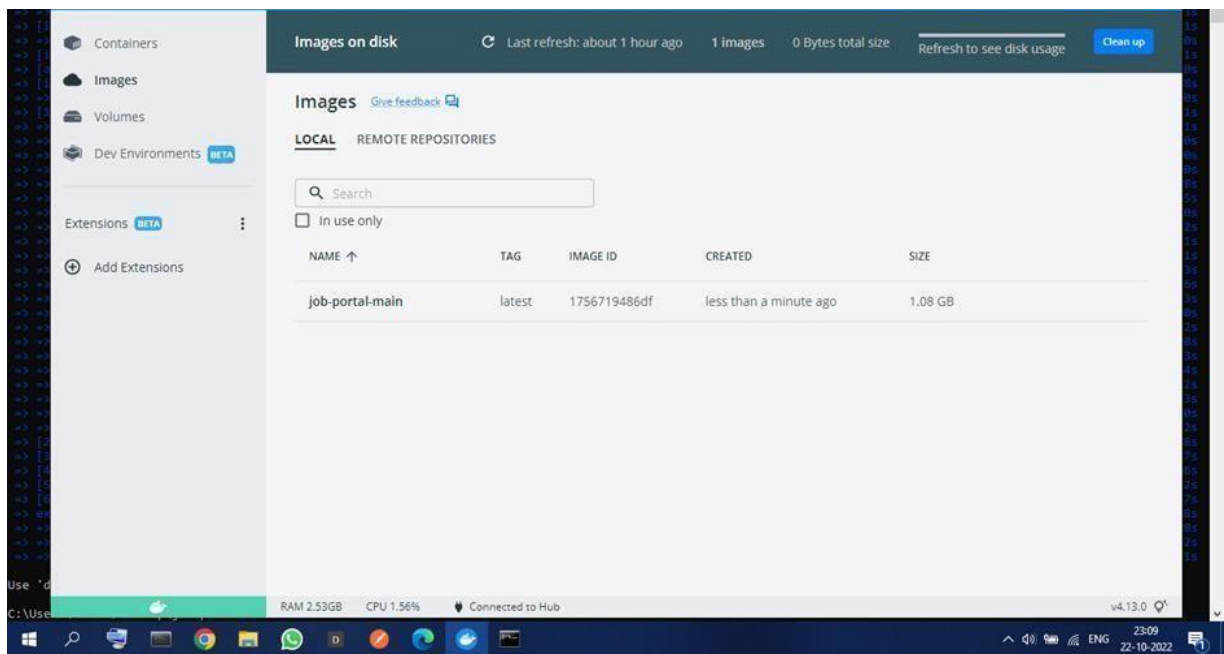
Question2:

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: 639B
[1/6] FROM docker.io/library/python:3.6@sha256:f8652afa88c25f8d22354d547d892591867aa4026a7fa9a08190f9f300afebc
-> sha256:f8652afa88c25f8d22354d547d892591867aa4026a7fa9a08190f9f300afebc 1.86kB / 1.86kB
-> sha256:d807ae361722f4f70eca33f33823edd3faa85861d5a95cd5a92cab32f406d656 16.87MB / 16.87MB
-> sha256:54260638d07c5e3ad24c6e21f889abbc8488a27634c809208eff71f3f44b104 9.27kB / 9.27kB
-> sha256:0e39546d541c0bd309201d21a73a0d1007865c1b95b74f32b009e0b77a6e13 54.92MB / 54.92MB
-> sha256:90820c73b52b92b07d5c07a54b0f3e921995a296c714b53a32ae67019231fcd 5.15MB / 5.15MB
-> sha256:cd807ae361722f4f70eca33f33823edd3faa85861d5a95cd5a92cab32f406d656 16.87MB / 16.87MB
-> sha256:6494e4811622b31c027ccac322ca463937fd805f560a01a6f15c01a0e718793 54.57MB / 54.57MB
-> sha256:8f9f74890df03fe8172f594fab85e0b4a8a0481a0fef0112efc7e4d3c78f7 196.51MB / 196.51MB
-> sha256:5e3b1213efc56598e78bd602983945c164de2a37205e06a62ada823124dc743 6.29MB / 6.29MB
-> extracting sha256:0e29546d541c0bd309201d21a73a0d1007865c1b95b74f32b009e0b77a6e13 27.3%
-> sha256:9fddfd56334f2e6fad7a241bf5e7459c40ed105c5470676f41c1244bd96752 14.21MB / 14.21MB
-> extracting sha256:9b829c73b52b92b07d5c07a54b0f3e921995a296c714b53a32ae67019231fcd 2.3%
-> sha256:c05b7ae361722f4f70eca33f33823edd3faa85861d5a95cd5a92cab32f406d656 4.0%
-> sha256:404f02044b0c432ca522cbb9f354b1c91fcea80b0bfeef0be0b243b2f31bab7 235B / 235B
-> sha256:cd807ae361722f4f70eca33f33823edd3faa85861d5a95cd5a92cab32f406d656 16.87MB / 16.87MB
-> extracting sha256:6494e4811622b31c027ccac322ca463937fd805f560a01a6f15c01a0e718793 27.3%
-> sha256:8f9f74890df03fe8172f594fab85e0b4a8a0481a0fef0112efc7e4d3c78f7 131.4%
-> extracting sha256:5e3b1213efc56598e78bd602983945c164de2a37205e06a62ada823124dc743 8.2%
-> extracting sha256:9fddfd56334f2e6fad7a241bf5e7459c40ed105c5470676f41c1244bd96752 11.3%
-> sha256:404f02044b0c432ca522cbb9f354b1c91fcea80b0bfeef0be0b243b2f31bab7 2.7%
-> extracting sha256:c4f42b2be53b900b0b7fc048c1d713de518434ccc5f5d95a560840a10ba3a3f 2.6%
[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 lmdb
-> exporting to image
-> exporting layers
-> writing image sha256:1756719486df002fa5d4e305c52215137f2f2db49a80242b22a28af0379f19
-> 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>
```



Question3:

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
```

Question4:

Create a Kubernetes cluster in IBM cloud and deploy helloworld image or job portal image and also expose the same app to run in no deport.

