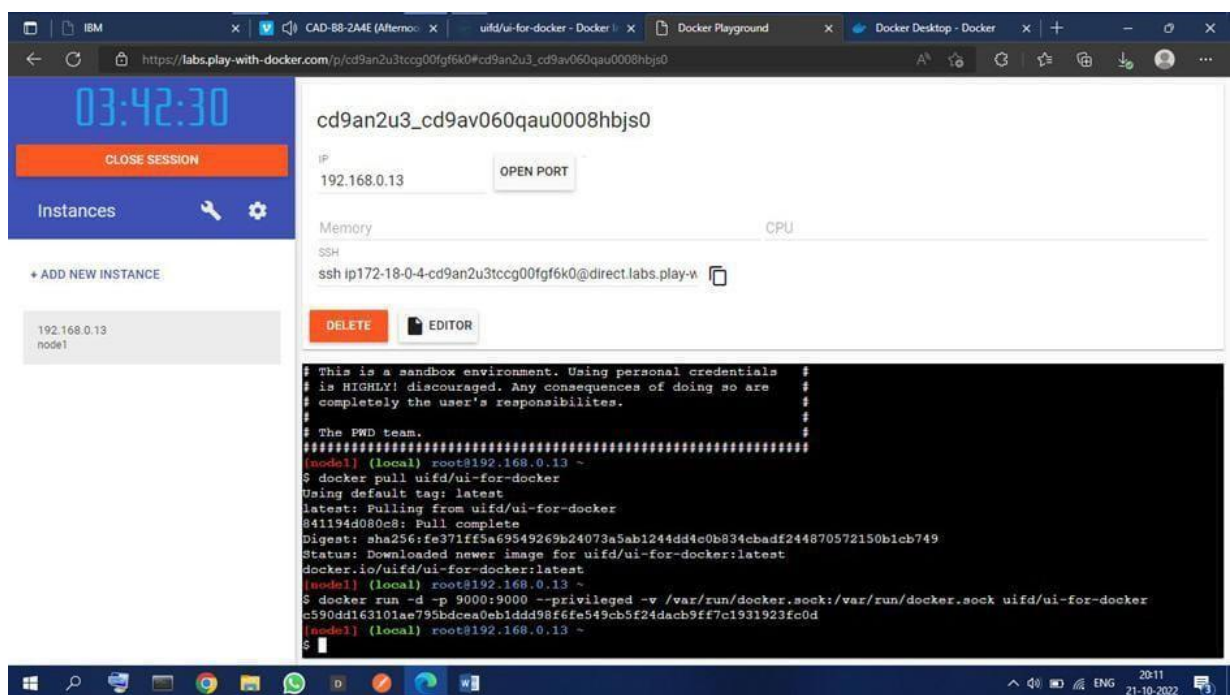
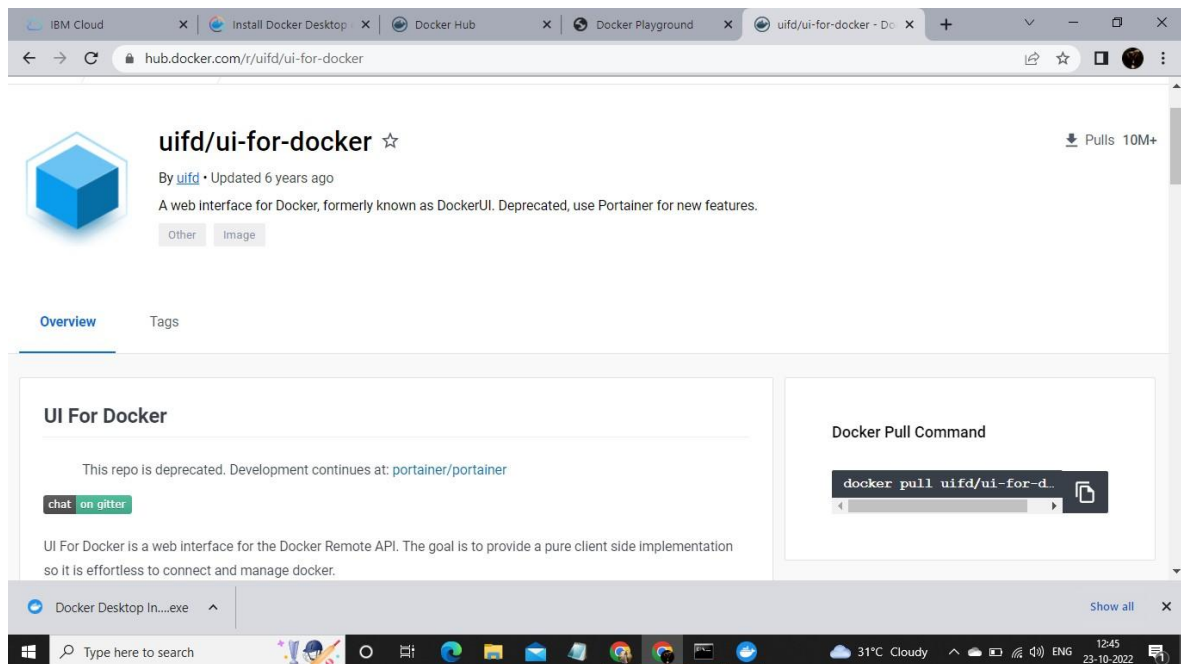


DOCKER AND KUBERNETES

Assignment Date	21 October 2022
Team ID	PNT2022TMID30575
Maximum Marks	2 Marks

Question 1:

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



UI For Docker

Dashboard Containers Containers Network Images Networks Volumes Info Refresh

UI For Docker


The UI for Docker container engine

Learn more.

Running Containers

- beautiful_goldwasser Up About a minute

Status



Windows taskbar: 20:13 21-10-2022


UI For Docker

Dashboard Containers Containers Network Images Networks Volumes Info Refresh

Running Containers

- beautiful_goldwasser Up About a minute

Status



Running Stopped Ghost

Containers created

1

0

21/10/2022

Images created

1

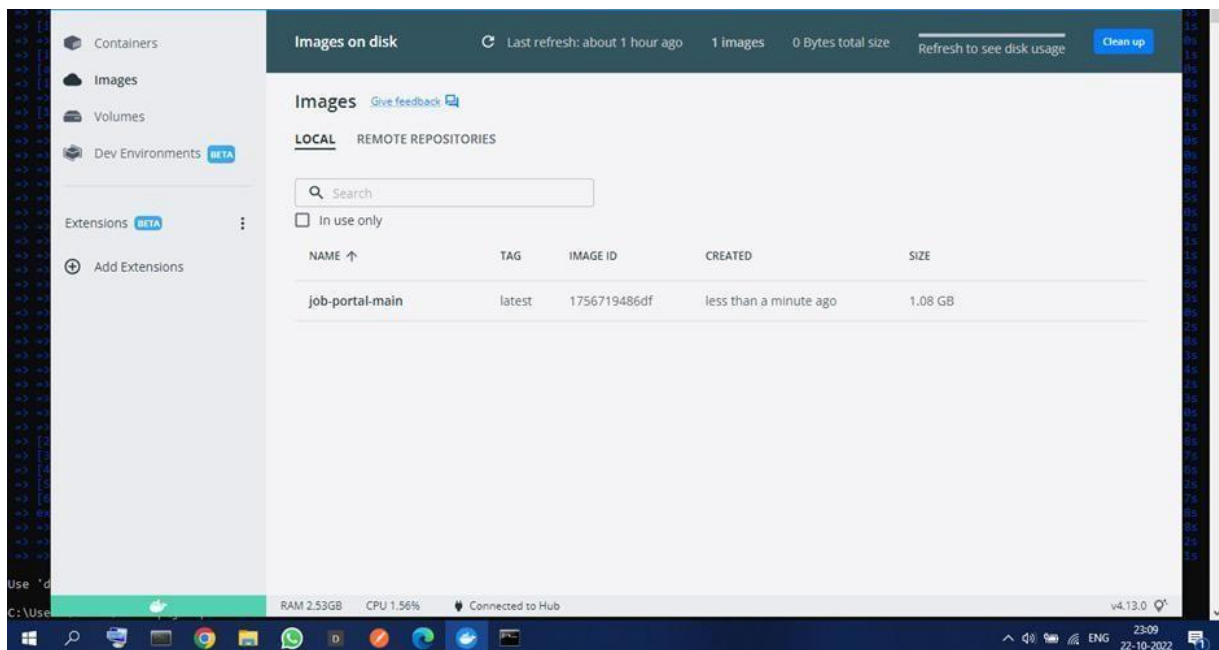
Windows taskbar: 20:13 21-10-2022

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: 697B
[1/6] FROM docker.io/library/python:3.6@sha256:f8653afebf8c25f6d22354d547d002501067aa4026a7f9a0e819cf9f300afe9fc
resolving docker.io/library/python:3.6@sha256:f8653afebf8c25f6d22354d547d002501067aa4026a7f9a0e819cf9f300afe9fc
sha256:f8653afebf8c25f6d22354d547d002501067aa4026a7f9a0e819cf9f300afe9fc 1.86kB / 1.86kB
sha256:0807da907a8ec079df5ac31072359c2de05f08221ca048a9e26393b376d3b60d 2.22kB / 2.22kB
sha256:5428063d0d75e3ad24c6e21ffc809abbca88a27634c0092086ef73f3f44b10d 9.27kB / 9.27kB
sha256:be29546d541cd9d309201d21a73a9d1db78665c1b95b74f32b00e0b77a6e133 54.92MB / 54.92MB
sha256:90829c73052b02097d5c07a54f60f3e921995a296c714b53a32ae67019231fcd 5.15MB / 5.15MB
sha256:f5b7a0e36172707bec45f35823ee21baa5061dd95c6f5e9a652d748cd56 10.97MB / 10.97MB
sha256:90829c73052b02097d5c07a54f60f3e921995a296c714b53a32ae67019231fcd 54.57MB / 54.57MB
sha256:07974806df0a3f8b172f594fab85e0b4080481a0fef0112efc7e4d3c78f7 196.51MB / 196.51MB
sha256:5e3b1213efc56598e78bd0e2983945c164dc2a37290e06a62dada82124d743 6.29MB / 6.29MB
extracting sha256:0e29546d541cd9309201d21a73a9d1db78665c1b95b74f32b00e0b77a6e133
sha256:9fd0f9dc563472e6fad7e241bf5e7450c40ed105c5478676f41c1244bd96752 14.21MB / 14.21MB
extracting sha256:9b82b2c73052b02097d5c07a54f60f3e921995a296c714b53a32ae67019231fcd
extracting sha256:cd5b7ae36172707bec45f35823ee21baa5061dd95c6f5e9a652d748cd56
sha256:404f02044bac432ca522cbb9f25401c91fcea080bfeef0eb0b243b23f31bab7 235B / 235B
sha256:f5c2b6347be040c1df13de53043cccf5d95a56840613093a3f 2.21MB / 2.21MB
extracting sha256:6a94e04811622b1c1027cca322caae393f7d885f59a936f15c01ade718793
extracting sha256:07974806df0a3f8b172f594fab85e0b4080481a0fef0112efc7e4d3c78f7
extracting sha256:5e3b1213efc56598e78bd0e2983945c164dc2a37290e06a62dada82124d743
extracting sha256:9fd0f9dc563472e6fad7e241bf5e7450c40ed105c5478676f41c1244bd96752
extracting sha256:404f02044bac432ca522cbb9f25401c91fcea080bfeef0eb0b243b23f31bab7
extracting sha256:c4f42be2be3b900ebf9c040c1df13de53043cccf5d95a568406109a3a3f
[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 llm_dh
exporting to image
-> exporting layers
-> writing image sha256:1756719406df002fa5d3e3053221513f2f2d1b4a0d242b22a28af0379f19
-> 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.

