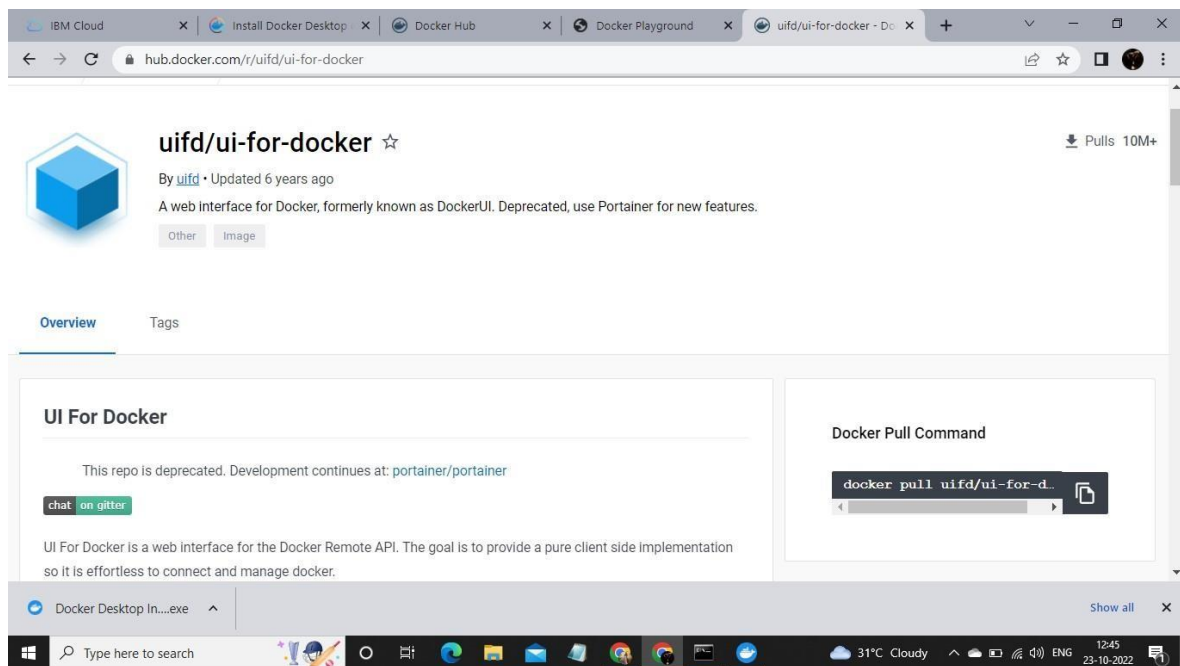


DOCKERANDKUBERNETES

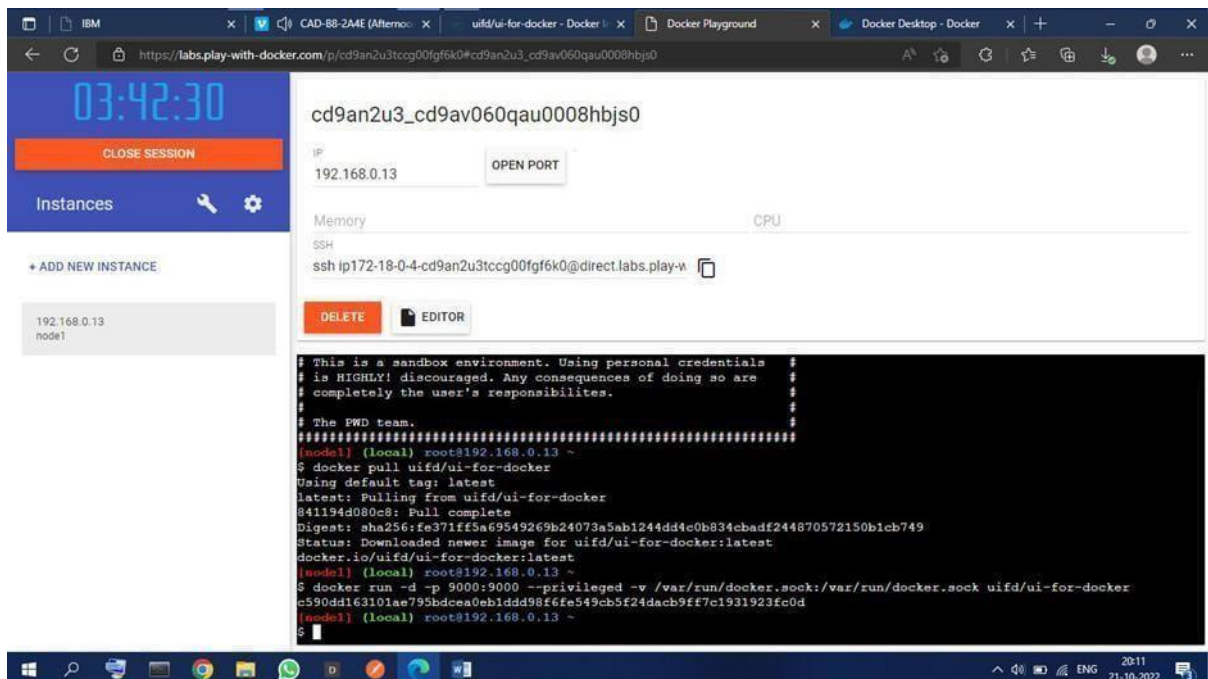
AssignmentDate	21October2022
StudentName	N. Keerthana
StudentRoll Number	613019205024
TeamID	PNT2022TMID30734
MaximumMarks	2Marks

Question1:

PullanImagefromdockerhubandrunitindockerplayground.



The screenshot shows a web browser window with multiple tabs. The active tab is 'uifd/ui-for-docker - Docker Hub'. The URL bar shows 'hub.docker.com/r/uifd/ui-for-docker'. The page displays the Docker Hub profile for 'uifd/ui-for-docker', which is a deprecated repository. It includes a description: 'A web interface for Docker, formerly known as DockerUI. Deprecated, use Portainer for new features.' and a 'Docker Pull Command' box with the command: `docker pull uifd/ui-for-d`. The page also shows a 'chat on gitter' button and a 'Tags' section.



The screenshot shows the Docker Playground interface. The top bar displays the time '03:42:30' and a 'CLOSE SESSION' button. Below this, there's a section for 'Instances' with a '+ ADD NEW INSTANCE' button. A list of instances shows '192.168.0.13 node1'. The main area displays the details for the instance 'cd9an2u3_cd9av060qau0008hbjs0', including its IP '192.168.0.13' and an 'OPEN PORT' button. Below this, there's a terminal window showing the command to pull the 'uifd/ui-for-docker' image and run it. The terminal output shows the image being pulled and the container running successfully.

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

Question2:

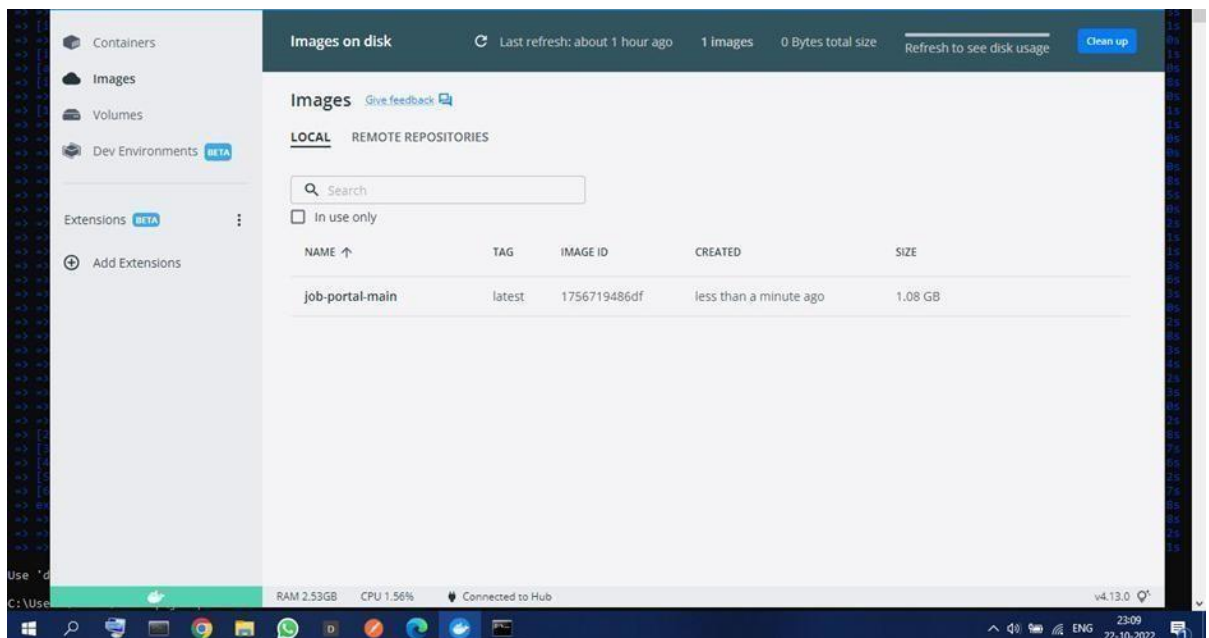
Create a dockerfile

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:3.5
[auth] library/python:pull token for registry-1.docker.io
[Internal] load build context
-> transferring context: 83B
[1/6] FROM docker.io/library/python:3.5@sha256:f8652afe88c25f8d22354d547d802591867aa4826a7fa9a0819df9f300afebc
-> resolve docker.io/library/python:3.5@sha256:f8652afe88c25f8d22354d547d802591867aa4826a7fa9a0819df9f300afebc
-> sha256:f8652afe88c25f8d22354d547d802591867aa4826a7fa9a0819df9f300afebc 1.86kB / 1.86kB
-> sha256:d807a4007a8ec079df5ac31872359c2de510f82214c0448e926393b37ed3b60d 2.22kB / 2.22kB
-> sha256:542d638d07c5e3ad24c6e21fc889abbc8488a27634c009208eff71f3f44b104 9.27kB / 9.27kB
-> sha256:0e29546d541c0bd309201d21a73a0d10b78665c1b95b74f32b009e0b77ade1e3 54.92MB / 54.92MB
-> sha256:90829c73b52b92b07d5c07a54fb0f3e021995a296c714b53a32ae67019231fcd 5.15MB / 5.15MB
-> sha256:c0e07ae361f72f470eca53f3b22edf1aa85061d5a9c5d5a95b32f706c6d6 10.87MB / 10.87MB
-> sha256:6494e4811622b31c027ccac32ca463937fd805f569a91a6f15c01a00718793 54.57MB / 54.57MB
-> sha256:8f9f7489edf03fe0172f594fab95e0b4e0a0481a0fef0112efc7e4d3c78f7 196.51MB / 196.51MB
-> sha256:5e3b1213efc56598e78bd602983945c164de2a37295e06a62ada823124dc743 6.29MB / 6.29MB
-> extracting sha256:0e29546d541c0bd309201d21a73a0d10b78665c1b95b74f32b009e0b77ade1e3
-> sha256:9fddfdcc56334f2e6fad7a241bf5e7459c40ed105c5470676f41c1244bd96752 14.21MB / 14.21MB
-> extracting sha256:9b829c73b52b92b07d5c07a54fb0f3e021995a296c714b53a32ae67019231fcd
-> sha256:c0e07ae361f72f470eca53f3b22edf1aa85061d5a9c5d5a95b32f706c6d6
-> sha256:404f02044b3c0a521c0b9f25401c91fced00bfeef0be0b243b2f31bab7 235B / 235B
-> sha256:c0e07ae361f72f470eca53f3b22edf1aa85061d5a9c5d5a95b32f706c6d6 2.21MB / 2.21MB
-> extracting sha256:6494e4811622b31c027ccac32ca463937fd805f569a91a6f15c01a00718793
-> extracting sha256:8f9f7489edf03fe0172f594fab95e0b4e0a0481a0fef0112efc7e4d3c78f7
-> sha256:5e3b1213efc56598e78bd602983945c164de2a37295e06a62ada823124dc743
-> extracting sha256:9fddfdcc56334f2e6fad7a241bf5e7459c40ed105c5470676f41c1244bd96752
-> extracting sha256:404f02044b3c0a521c0b9f25401c91fced00bfeef0be0b243b2f31bab7
-> extracting sha256:c0e07ae361f72f470eca53f3b22edf1aa85061d5a9c5d5a95b32f706c6d6
-> [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 lmw_db
-> exporting to image
-> exporting layers
-> writing image sha256:1756719486df002fa05d4e305c522153372ff2db1b40a80242b22a28af0379f19
-> 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 node port.

