**DOCKER AND KUBERNETES**

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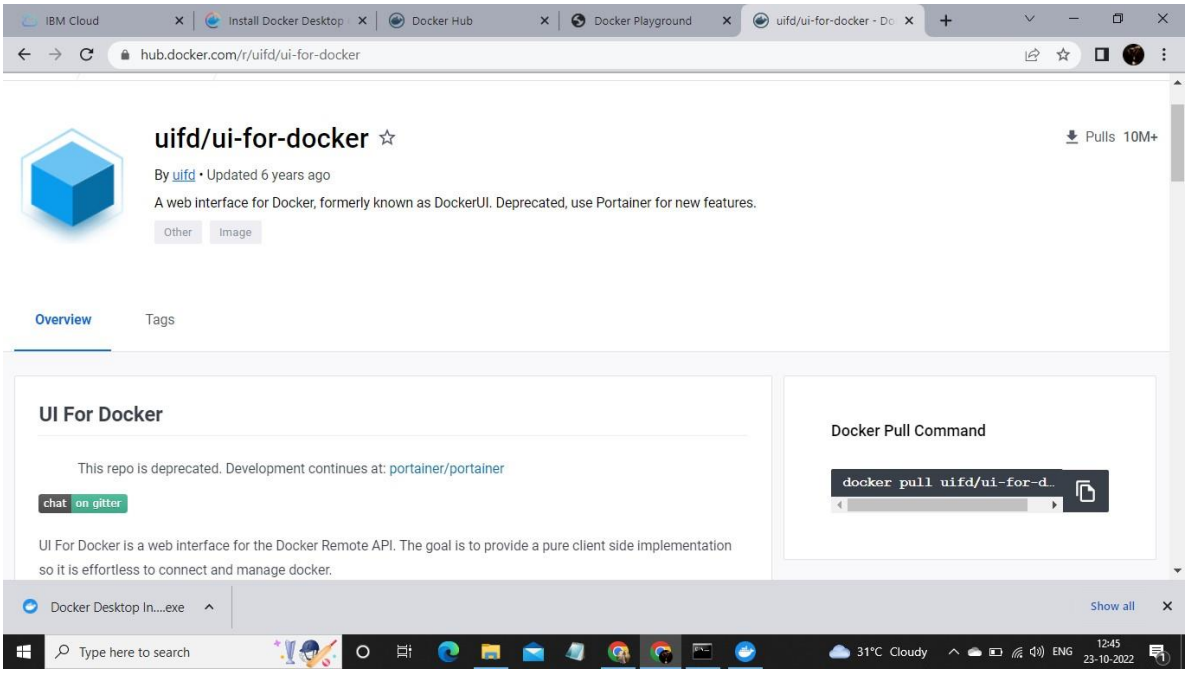
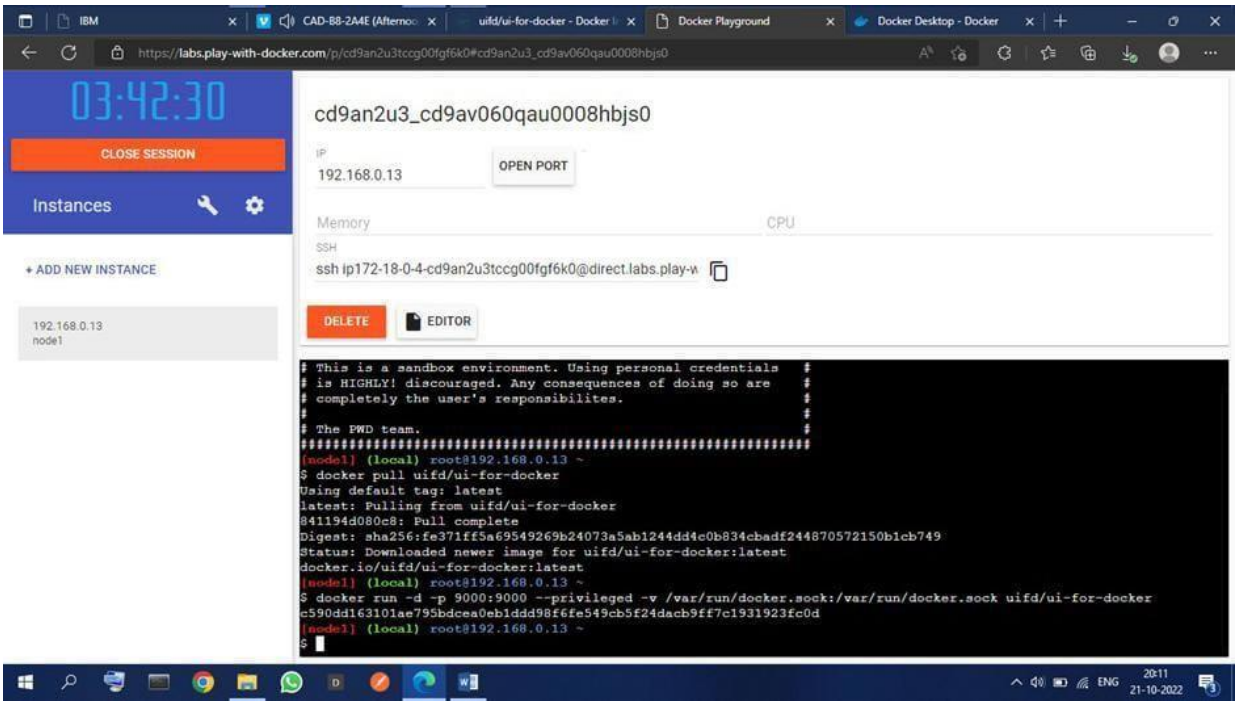
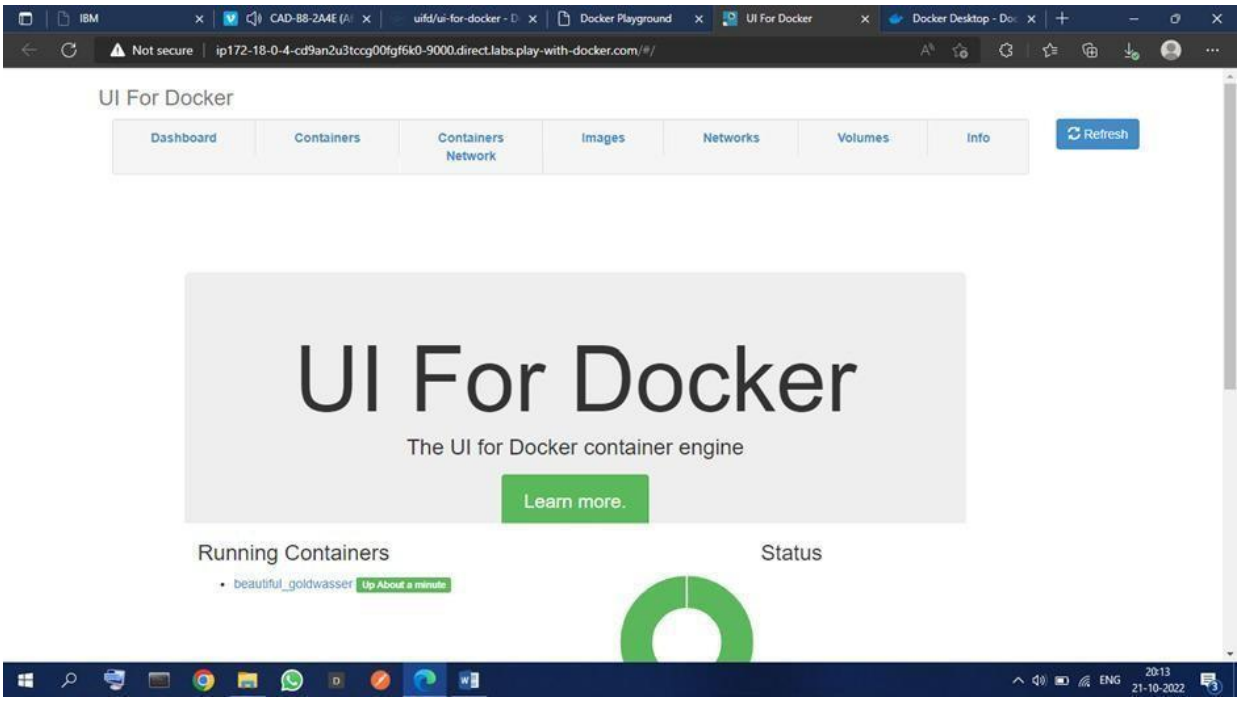
| Assignment Date | 21 October 2022 |
| Student Name | SURUTHI R |
| Student Roll Number | 613019104083 |
| Team ID | PNT2022TMID30600 |
| Maximum Marks | 2 Marks |

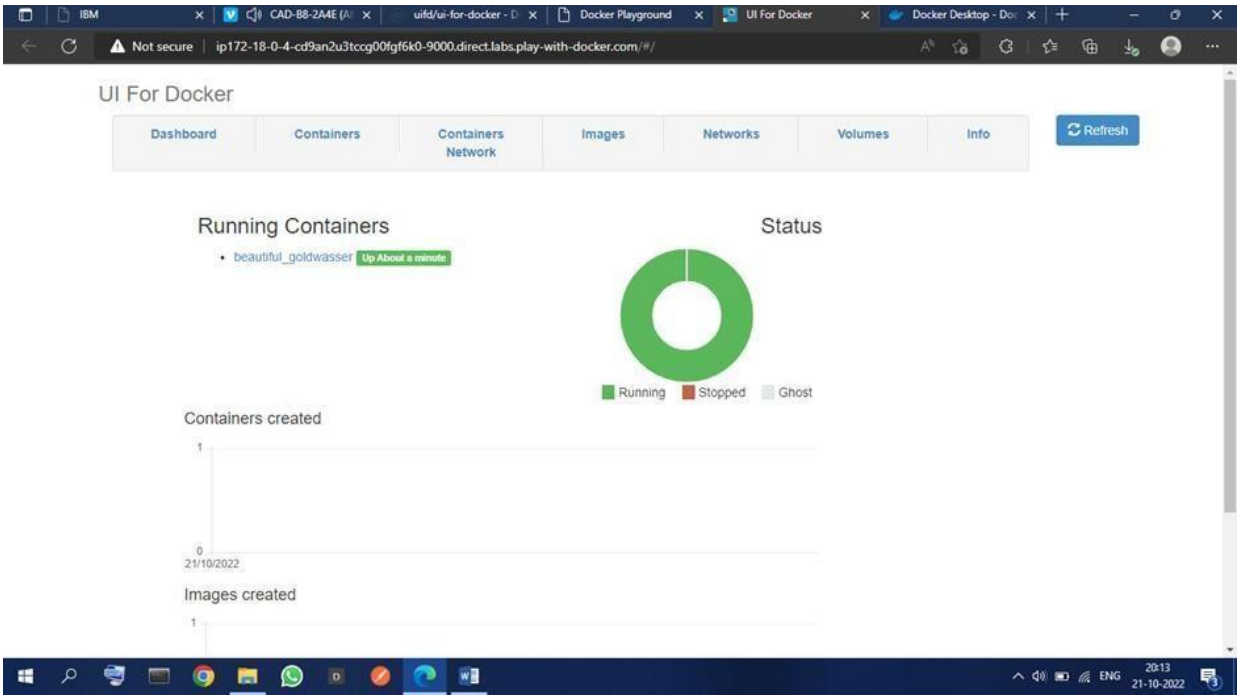
## Question 1:

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



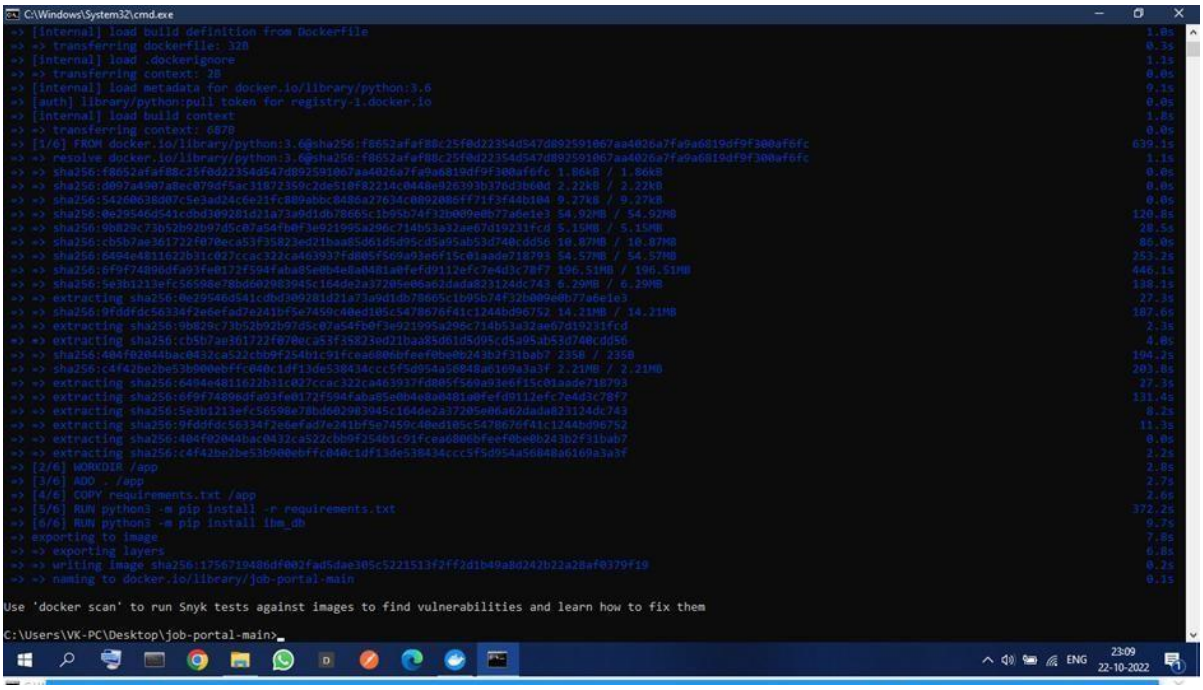

https://labs.play-with-docker.com/p/cd9an2u3tccg00fgf6k0#cd9an2u3_cd9av060qau0008hbjs0
03:42:30
CLOSE SESSION
Instances
+ ADD NEW INSTANCE
192.168.0.13
node1
cd9an2u3_cd9av060qau0008hbjs0
IP
192.168.0.13
OPEN PORT
Memory
CPU
SSH
ssh ip172-18-0-4-cd9an2u3tccg00fgf6k0@direct.labs.play-w
DELETE
EDITOR
# This is a sandbox environment. Using personal credentials #
# is HIGHLY! discouraged. Any consequences of doing so are #
# completely the user's responsibilites. #
# #
# The PWD team. #
[node1] (local) root@192.168.0.13 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
841194d080c8: Pull complete
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd4c0b834cbadf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
[node1] (local) root@192.168.0.13 ~
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
c590dd163101ae795bdcea0eb1ddd98f6fe549cb5f24dacb9ff7c1931923fc0d
[node1] (local) root@192.168.0.13 ~
$

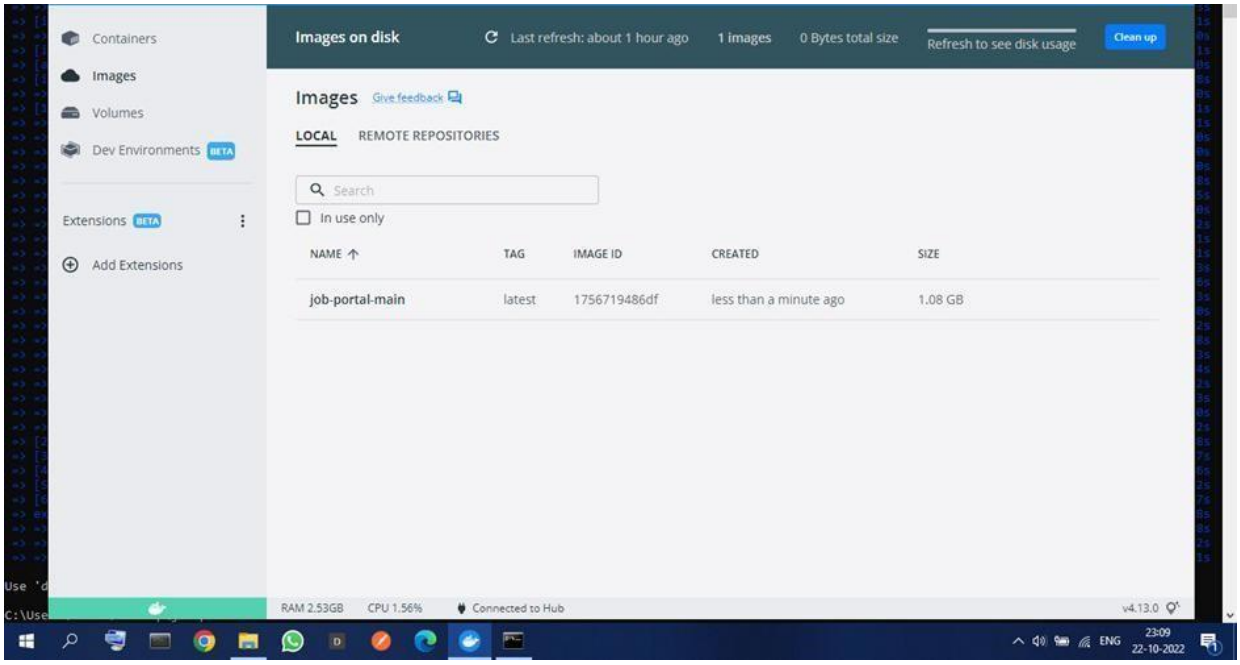

Not secure
ip172-18-0-4-cd9an2u3tccg00fgf6k0-9000.direct.labs.play-with-docker.com/#/
UI For Docker
Dashboard
Containers
Containers Network
Images
Networks
Volumes
Info
Refresh
UI For Docker
The UI for Docker container engine
Learn more.
Running Containers
beautiful_goldwasser
Up About a minute
Status




## Question 2:

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




## Question 3:

**Create an IBM container registry and deploy hello world 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 hello world image or job portal image and also expose the same app to run in node port.