

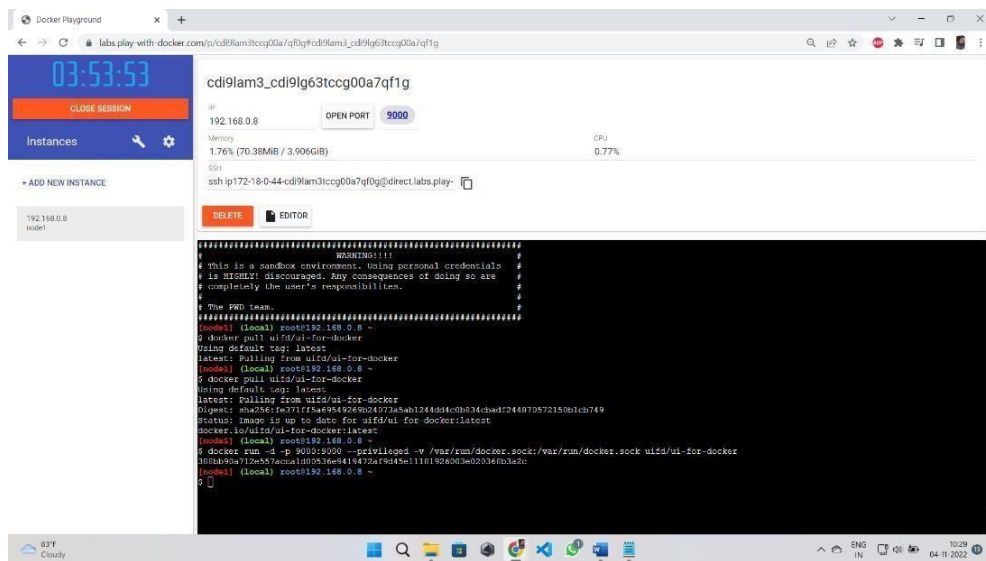
## Assignment – 4

### Docker and Kubernetes

Assignment Date	19.11.2022
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Maximum Marks	2 Marks

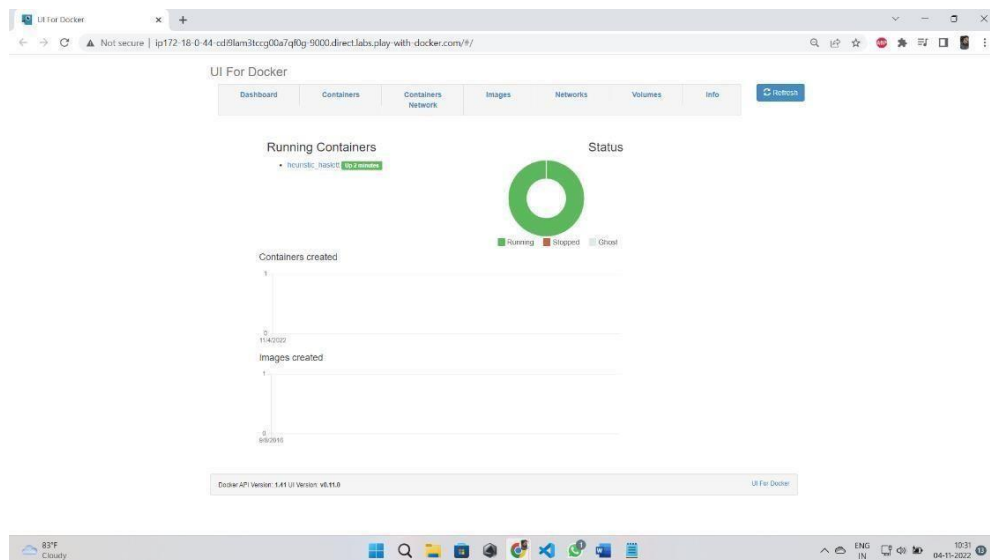
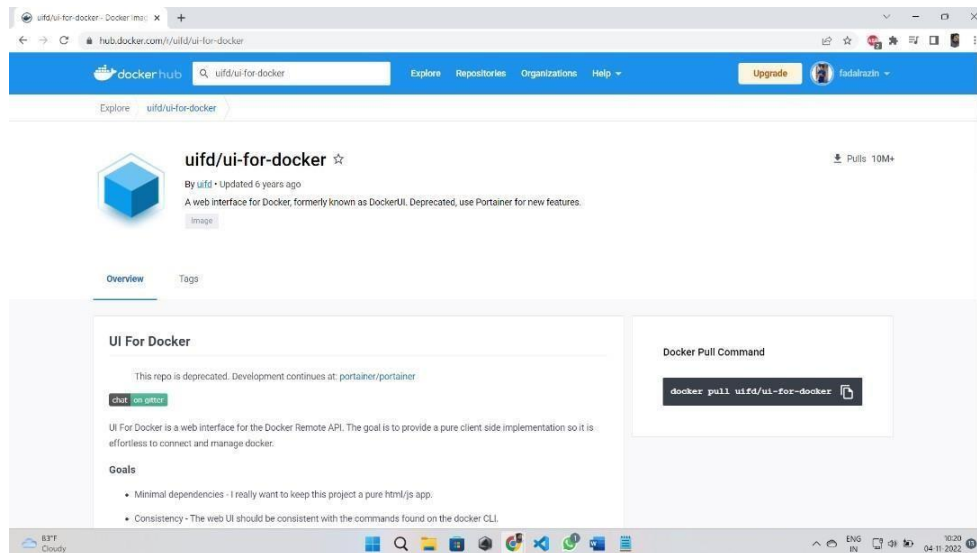
#### Question-1:

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




The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a clock showing 03:53:53, a 'CLOSE SESSION' button, and a list of instances. The main area displays a terminal window for a container named 'cdi9lam3\_cdi9lg63tccg00a7qf1g'. The terminal output shows the following commands and results:

```
WARNING!!!!
# This is a sandbox environment. Using personal credentials
# is HIGHLY discouraged. Any consequences of doing so are
# completely the user's responsibility.
#
# The FWD team.
=====
root@192.168.0.8 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
root@192.168.0.8 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
Digest: sha256:fc371ff4e6442268024172a0eb1244d80b34d4d7244070572150b1b749
Status: Image is up to date for uifd/ui-for-docker:latest
root@192.168.0.8 ~
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
888ab9de712e557acra1a00536e419472af945e1181928003e02036b5a2c
root@192.168.0.8 ~
```



## Question-2:

Create a docker file for the job portal application and deploy it in Docker desktop application.



```
1 FROM helloworld:latest
2 WORKDIR ~/Desktop/
3 ADD . helloworld/
4 WORKDIR ~/Desktop/htmlfile
5 RUN pip install -r requirements
6 RUN chmod +x app.sh
7 CMD ["/bin/sh", "app.sh"]
```

### Question-3:

Create a 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 nodeport.

