

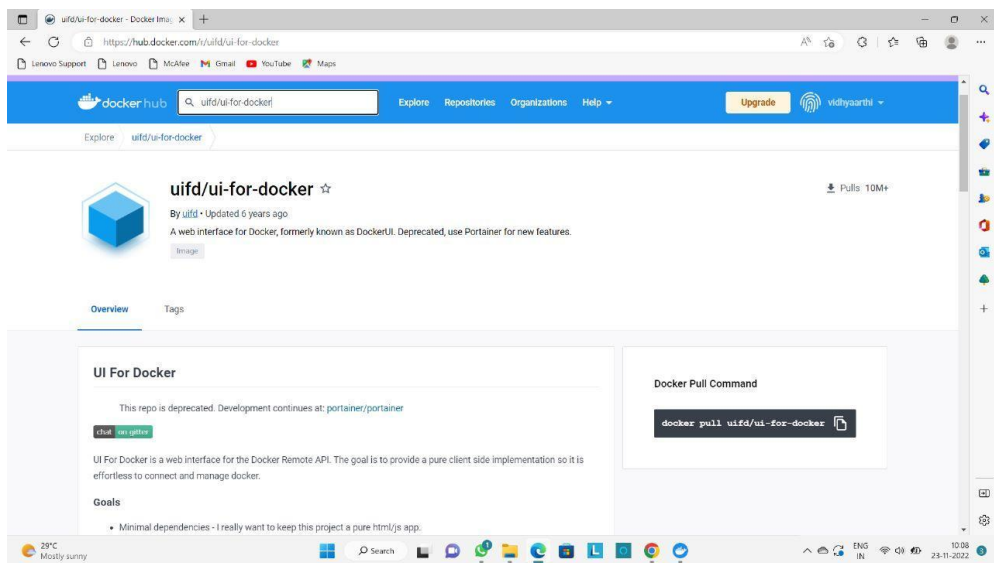
Assignment – 4

Docker and Kubernetes

Assignment Date	12 November 2022
Student Name	DURGADEVI.V
Student Roll Number	820319104301
Maximum Marks	2 Marks

Question-1:

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



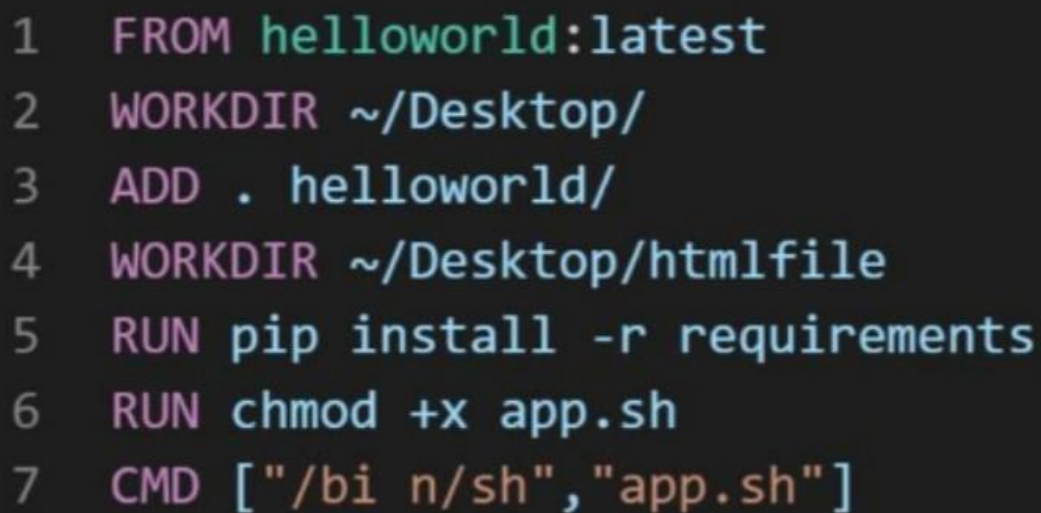
The image shows a Docker Playground session in a web browser. The session is titled "cduq8863_cduq8j60qau0009mjheg" and has an IP address of 192.168.0.8. The terminal output shows the following commands and results:

```
[node1] (local) root@192.168.0.8 ~  
$ docker pull uifd/ui-for-docker  
Using default tag: latest  
Error response from daemon: pull access denied for uifd/ui-for-docker, repository does not exist or may require 'docker login': denied: requested access to the resource is denied  
[node1] (local) root@192.168.0.8 ~  
$ docker run -d -p 8080:8080 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker  
Unable to find image 'uifd/ui-for-docker:latest' locally  
latest: Pulling from uifd/ui-for-docker  
841194d880c8: Pull complete  
Digest: sha256:f6371f5a6954959b24073a5ab124d44c0b834abadi244870572150b1cb749  
Status: Downloaded newer image for uifd/ui-for-docker:latest  
48412ff132c519e33c110e84dad14e2b4b2cd9b7e7c5eb9a27e213e46b1148e  
[node1] (local) root@192.168.0.8 ~
```

Below the terminal, the Docker Desktop UI is visible. It shows the "UI For Docker" dashboard with tabs for Dashboard, Containers, Containers Network, Images, Networks, Volumes, and Info. The "Running Containers" section shows one container named "laughing_pike" with a status of "Up 4 minutes". The "Status" section shows a donut chart with a green segment representing "Running" containers and a red segment representing "Stopped" containers. The "Containers created" and "Images created" sections show a count of 1 for each.

Question-2:

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



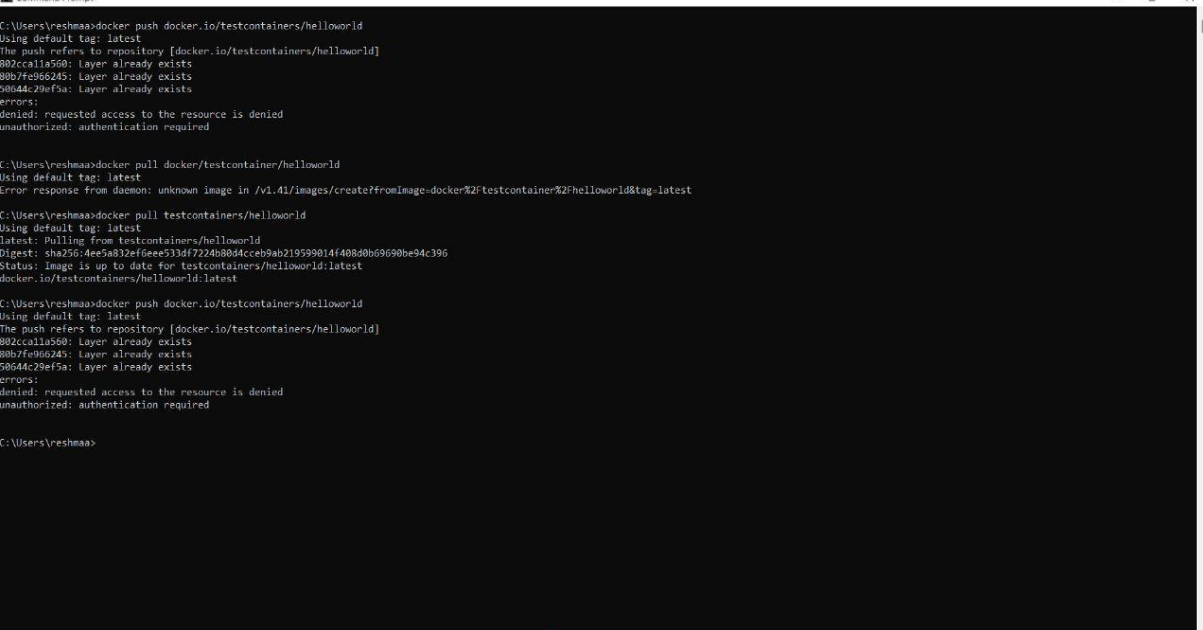
```

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.



```

C:\Users\reshmaa>docker push docker.io/testcontainers/helloworld
Using default tag: latest
The push refers to repository [docker.io/testcontainers/helloworld]
802cc11a560: Layer already exists
80b7fe965245: Layer already exists
90844c29ef5a: Layer already exists
errors:
denied: requested access to the resource is denied
unauthorized: authentication required

C:\Users\reshmaa>docker pull docker.io/testcontainers/helloworld
Using default tag: latest
Error response from daemon: unknown image in /v1.41/images/create?fromImage=docker%2Ftestcontainers%2Fhelloworld&tag=latest

C:\Users\reshmaa>docker pull testcontainers/helloworld
Using default tag: latest
latest: Pulling from testcontainers/helloworld
Digest: sha256:4ee5a832ef66ee533df7224b8084cceb9ab219599014f408d0b69690be94c396
Status: Image is up to date for testcontainers/helloworld:latest
docker.io/testcontainers/helloworld:latest

C:\Users\reshmaa>docker push docker.io/testcontainers/helloworld
Using default tag: latest
The push refers to repository [docker.io/testcontainers/helloworld]
802cc11a560: Layer already exists
80b7fe965245: Layer already exists
90844c29ef5a: Layer already exists
errors:
denied: requested access to the resource is denied
unauthorized: authentication required

C:\Users\reshmaa>

```

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.

