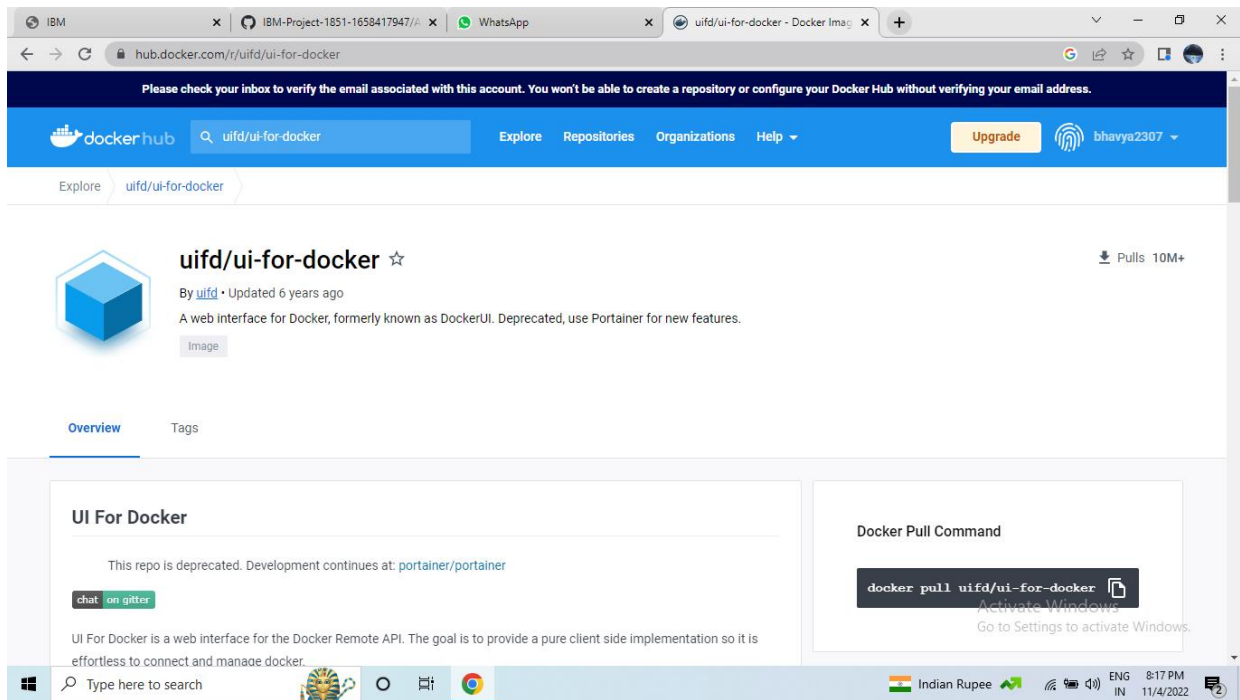


ASSIGNMENT-4

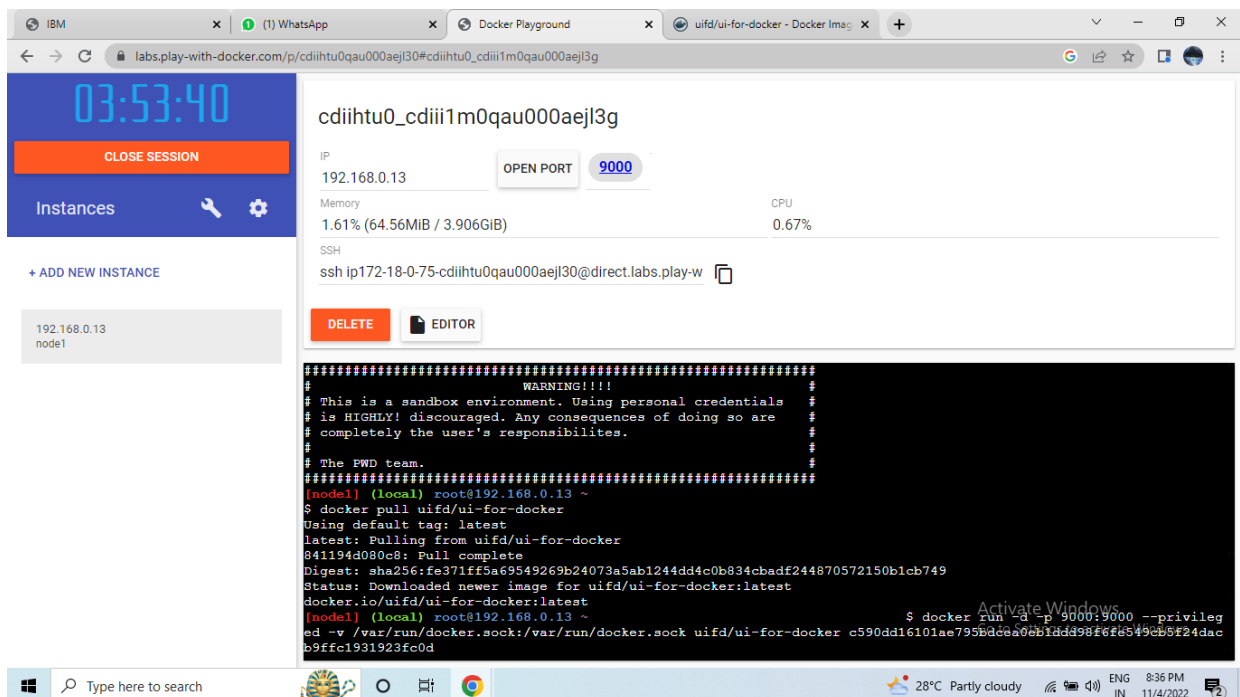
DOCKER AND KUBERNETES

DATE	06 NOVEMBER 2022
STUDENT NAME	BHAVYA SHREE G
STUDENT ROLL NUMBER	110319104006
MAXIMUM MARKS	2MARKS

1. Pull an image from docker hub and run it in docker Playground:



The screenshot shows the Docker Hub repository page for `uifd/ui-for-docker`. The page includes a search bar with the repository name, navigation links for Explore, Repositories, Organizations, and Help, and an Upgrade button. The repository details show it was updated 6 years ago and is deprecated, with a note to use Portainer for new features. A Docker Pull Command box displays `docker pull uifd/ui-for-docker`. The Overview tab is selected, showing a description of the UI For Docker project.



The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a timer (03:53:40), a CLOSE SESSION button, and a list of instances. The main area displays the details of a container named `cdiihtu0_cdiii1m0qau000aej3g`, including its IP (192.168.0.13), memory usage (1.61%), CPU usage (0.67%), and an SSH command. Below this, there's a terminal window showing the execution of `docker pull uifd/ui-for-docker` and `docker run` commands. The terminal output shows the image being pulled from Docker Hub and the container starting 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




UI For Docker

Dashboard Containers Containers Network Images Networks Volumes Info Refresh

Running Containers

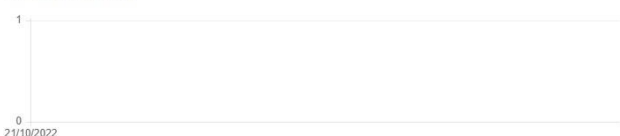
- beautiful_goldwasser Up About a minute

Status




Running Stopped Ghost

Containers created



Images created



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

[illegible]

Containers
Images
Volumes
Dev Environments
Extensions
Add Extensions

Images on disk

14 ImagesTotal size: 1.77 GB

IN USEUNUSED

Images

LOCALREMOTE REPOSITORIES

☐ In use only

NAME ↑	TAG	IMAGE ID	CREATED	SIZE
docker/desktop-storage-provisioner	v2.0	99f83471f470	over 1 year ago	41.85 MB
docker/desktop-vmkit-controller	v2.0	8c2c30aa076e	over 1 year ago	21.03 MB
docker/getting-started	latest	cb9c198d791	7 months ago	28.78 MB
docker_withflask	latest	1757907ba78	4 days ago	942.79 MB
hello-world	latest	fe05d91ea6a2	about 1 year ago	13.26 KB
jp1cr.io/na-1/hello-world	latest	fe05d91ea6a2	about 1 year ago	13.26 KB
k8s.gcr.io/coredns/coredns	v1.8.6	a4ca41e31cc7	about 1 year ago	46.89 MB
k8s.gcr.io/etcd	3.5.3-0	aeb8758c8f4c	7 months ago	299.5 MB
k8s.gcr.io/kube-apiserver	v1.24.2	d3377fb7177	5 months ago	129.71 MB

3. Create a IBM container registry and deploy Helloworld app or jobportalapp. Solution :

```
<html>
```

```
<body>
```

```
Hello, IBM Cloud
```

```
</body>
```

```
</html>
```

application

s:

buildpack: <https://github.com/cloudfoundry/staticfile->

buildpack.githost: simple-website- $\{\text{random}\}$

name: simple-website-

$\{\text{random}\}$ memory: 64M

stack: cflinuxfs2

The screenshot shows the IBM Cloud Deploy console. At the top, there are tabs for 'INPUT', 'JOBS', and 'ENVIRONMENT PROPERTIES'. Below these, there are icons for 'Rolling Deploy' and 'ADD JOB'. The main section is titled 'Rolling Deploy' and contains a 'Deploy configuration' table. The table has the following rows:

Deploy configuration	
Deployer type	Cloud Foundry
IBM Cloud region	US South - https://api.ng.bluemix.net
Organization	bluemix_devops@ibm.com
Space	demo
Application name	simple-website-ae7f5ff6

```
1 {
2   "ServiceId": "com.ibm.cloudoe.orion.client.deploy",
3   "Params": {
4     "Target": {
5       "Url": "https://api.ng.bluemix.net",
6       "Org": "bluemix_devops@ibm.com",
7       "Space": "demo"
8     },
9     "Name": "simple-website-ae7f5ff6",
10    "Instrumentation": {}
11  },
12  "Path": "manifest.yml",
13  "Type": "Cloud Foundry"
14 }
```

Hello, IBM Cloud



4. Create a Kubernetes cluster in IBM cloud and deploy Helloworld image or jobportal image and also expose the same app to run in nodeport:

