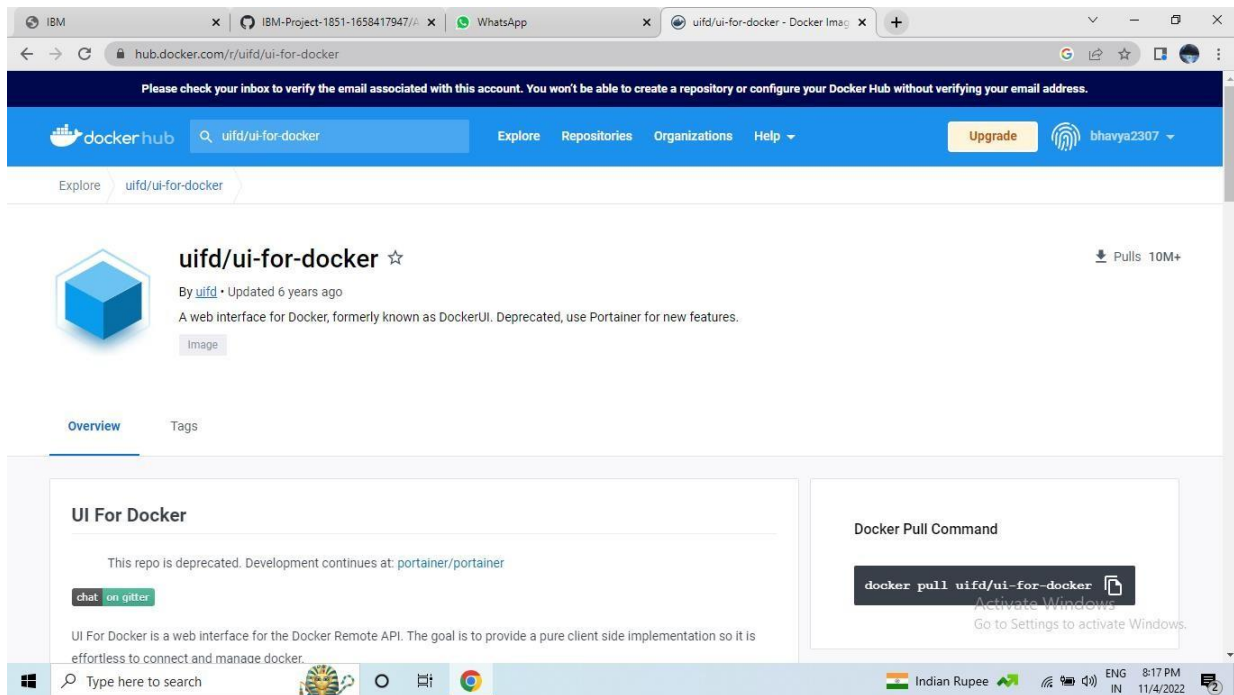


## ASSIGNMENT-4

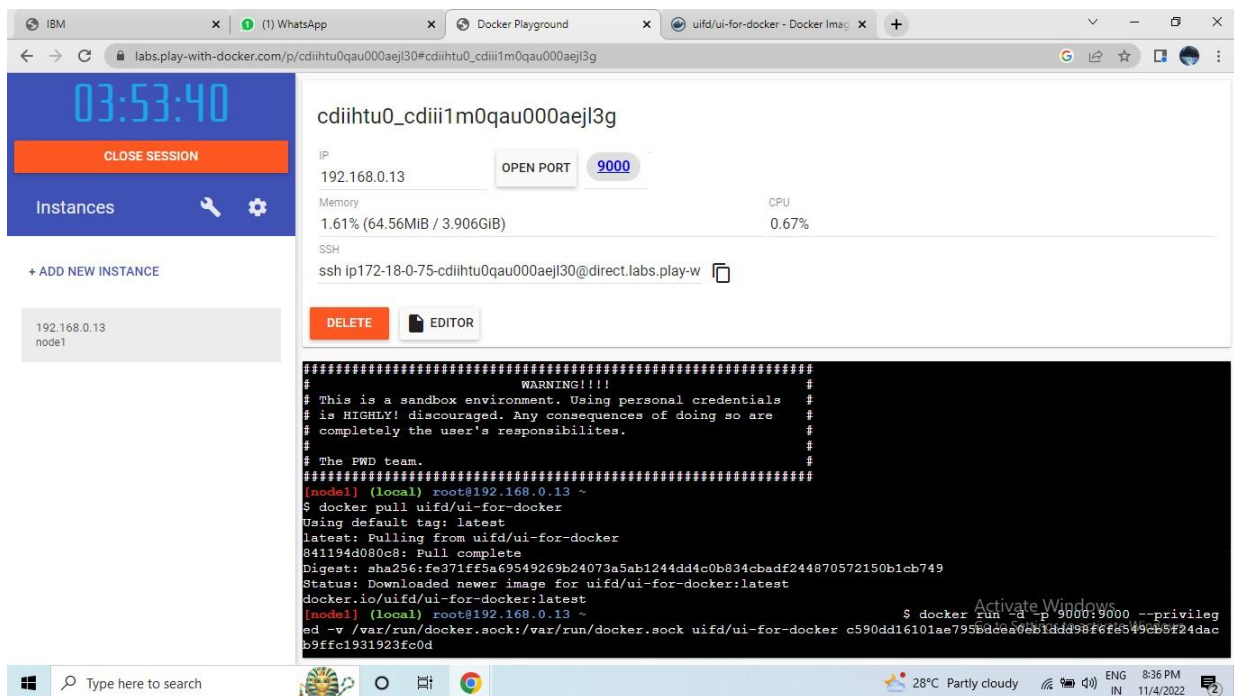
### DOCKER AND KUBERNETES

DATE	06 NOVEMBER 2022
STUDENT NAME	JEEVITHA A
STUDENT ROLL NUMBER	110319104020
MAXIMUM MARKS	2MARKS

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



The screenshot shows the Docker Hub page for the repository `uifd/ui-for-docker`. The page header includes the Docker Hub logo, a search bar with the text `uifd/ui-for-docker`, and navigation links for Explore, Repositories, Organizations, and Help. A notification banner at the top states: "Please check your inbox to verify the email associated with this account. You won't be able to create a repository or configure your Docker Hub without verifying your email address." The repository page shows the repository name `uifd/ui-for-docker` with a star icon, the user `uifd`, and a note that it was updated 6 years ago. A description states: "A web interface for Docker, formerly known as DockerUI. Deprecated, use Portainer for new features." Below the description, there are tabs for Overview and Tags. The Overview tab is active, showing a section titled "UI For Docker" with a note: "This repo is deprecated. Development continues at: [portainer/portainer](#)". There is a "chat on gitter" button. A "Docker Pull Command" box displays the command `docker pull uifd/ui-for-docker`. The page also shows a "Pulls 10M+" badge.



The screenshot shows the Docker Playground interface. The top bar includes the IBM logo, a search bar, and navigation links for Docker Playground and uifd/ui-for-docker - Docker Image. The main content area displays the IP address `192.168.0.13` and the OPEN PORT `9000`. Below this, the memory usage is shown as `1.61% (64.56MiB / 3.906GiB)` and the CPU usage as `0.67%`. The SSH command is `ssh ip172-18-0-75-cdihtu0qau000aejl30@direct.labs.play-w`. There are buttons for DELETE and EDITOR. The terminal window shows the following output:

```
##### WARNING!!!! #####
# This is a sandbox environment. Using personal credentials #
# is HIGHLY! discouraged. Any consequences of doing so are #
# completely the user's responsibilities. #
# The FWD 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
(node1) (local) root@192.168.0.13 ~
$ docker run -d -p 9000:9000 --privileg
ed -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker c590dd16101ae795badea0eb1dd498f6fe549cb5f24dac
b9ffe1931923fc0d
```

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 Status

- beautiful\_goldwasser Up About a minute




UI For Docker

Dashboard Containers Containers Network Images Networks Volumes Info Refresh

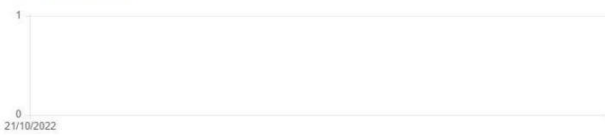
Running Containers Status

- beautiful\_goldwasser Up About a minute




Running Stopped Ghost

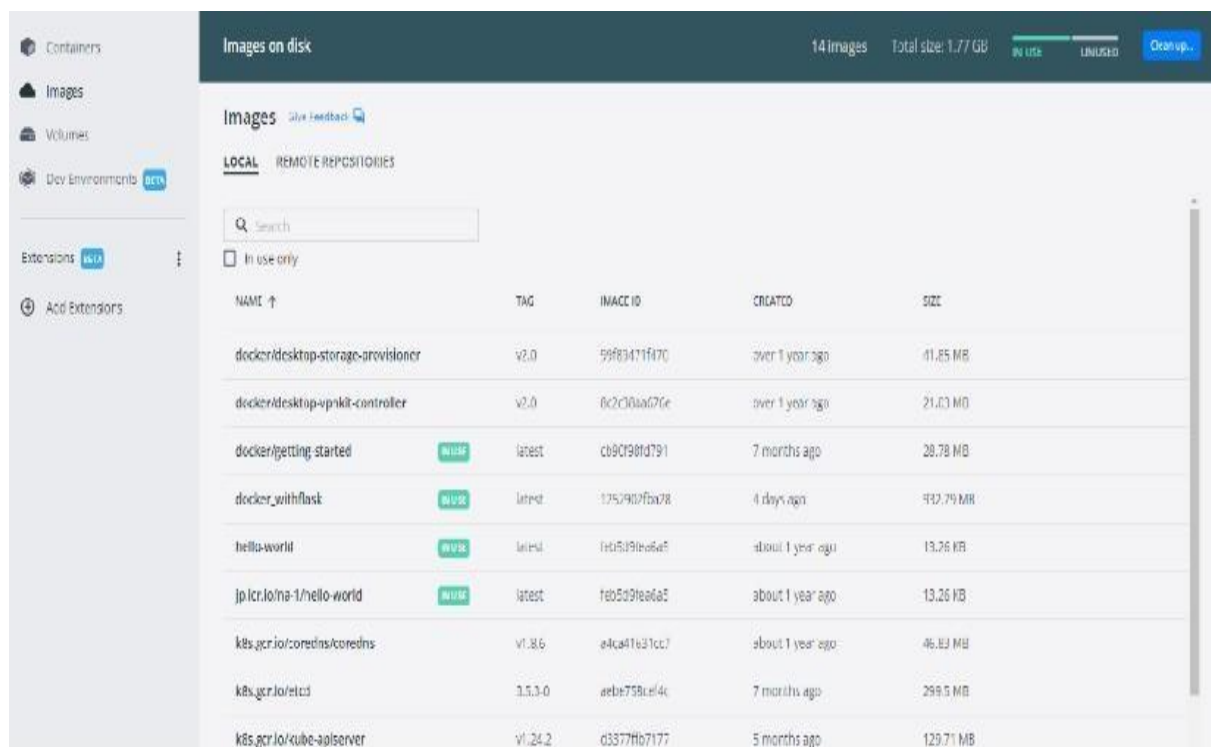
Containers created



Images created



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

[illegible]

### 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.ghost: simple-website- $\{random\}$

name: simple-website-

$\{random\}$ memory: 64M

stack: cflinuxfs2

The screenshot shows the IBM Cloud Deploy console. At the top, there's a 'DEPLOY' header with a 'DELETE' button. Below it, there are tabs for 'INPUT', 'JOBS', and 'ENVIRONMENT PROPERTIES'. The 'JOBS' tab is active, showing a 'Rolling Deploy' section. The 'Rolling Deploy' section has a 'REMOVE' button and a 'Deploy configuration' table. The table has the following rows:

Deploy configuration
Deployer type
Cloud Foundry
IBM Cloud region
US South - <a href="https://api.ng.bluemix.net">https://api.ng.bluemix.net</a>
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:

