

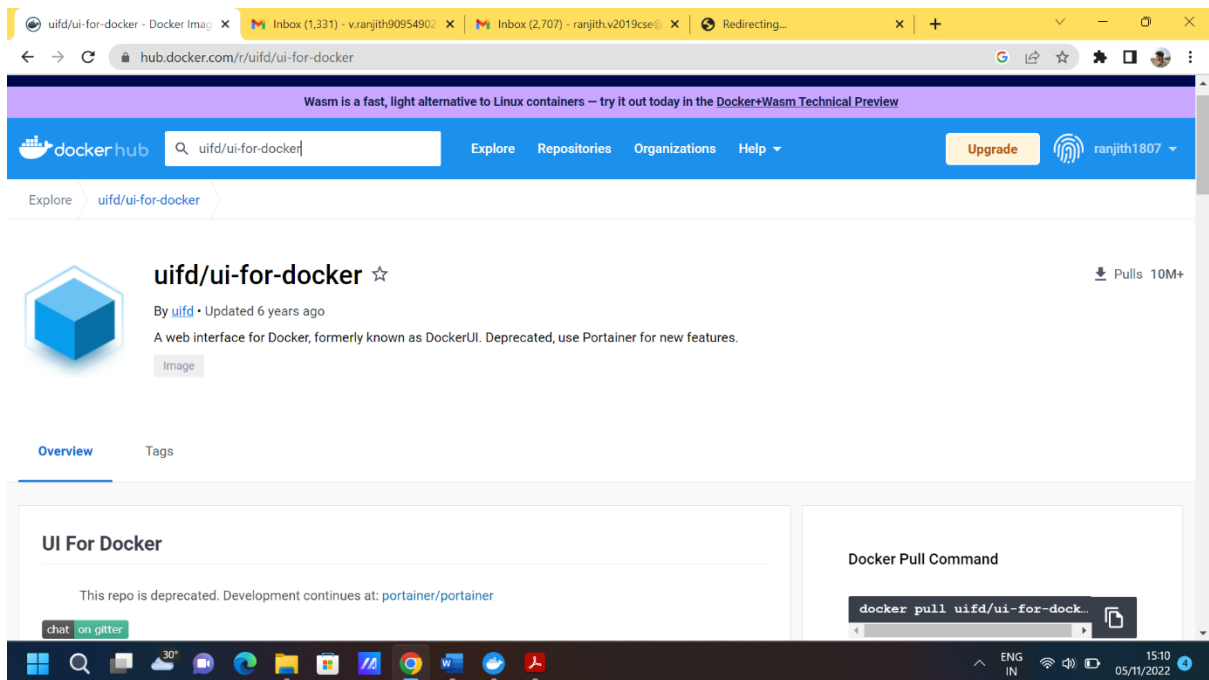
Assignment -4

Docker and Kubernetes

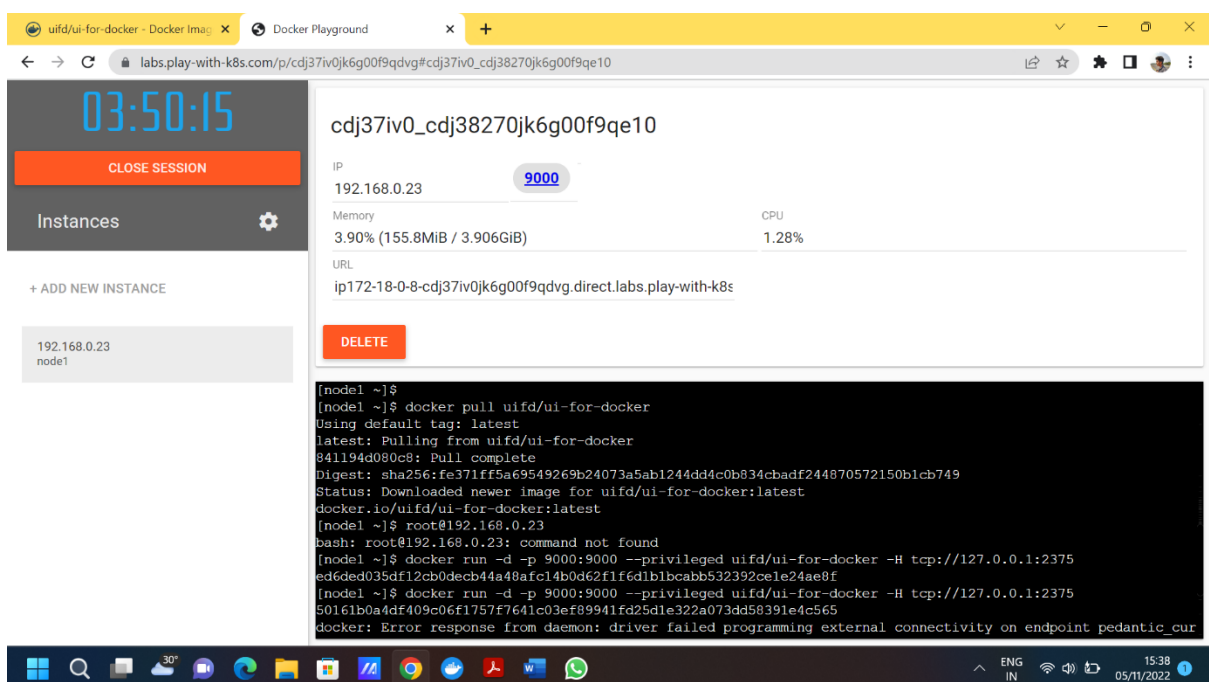
| | |
|---------------------|-----------------|
| Assignment Date | 21 October 2022 |
| Student Name | Ranjith V |
| Student Roll Number | 722819104112 |
| Maximum Marks | 2 Marks |

Question-1:

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

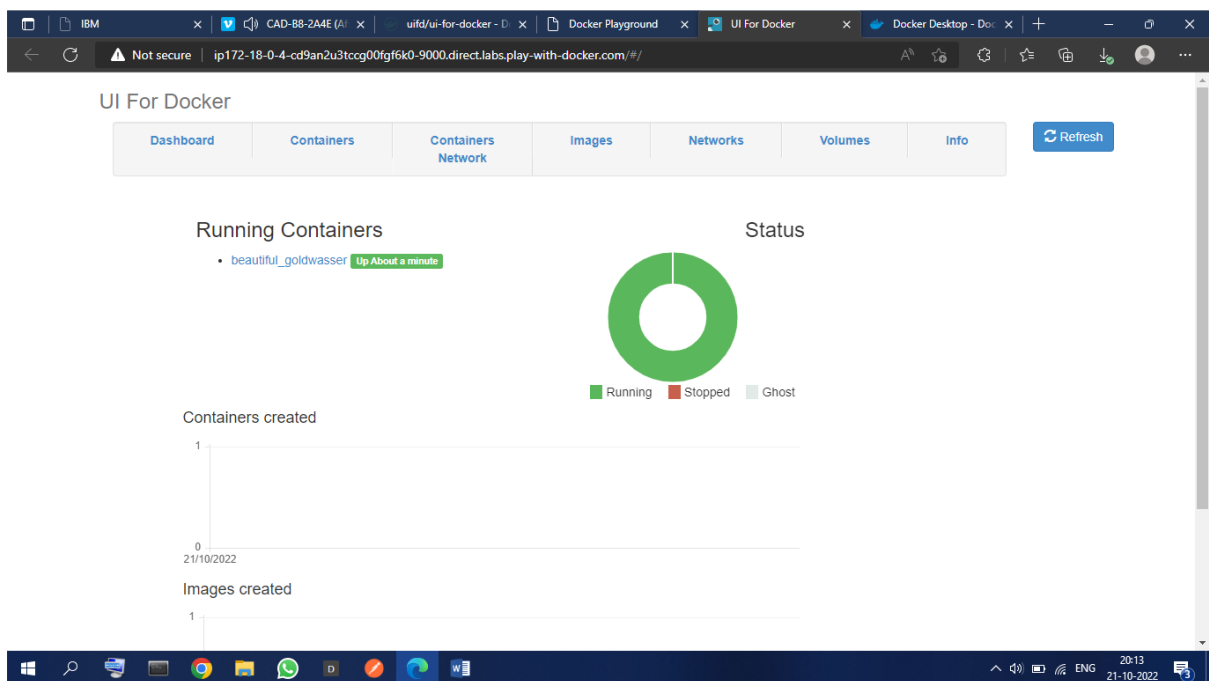
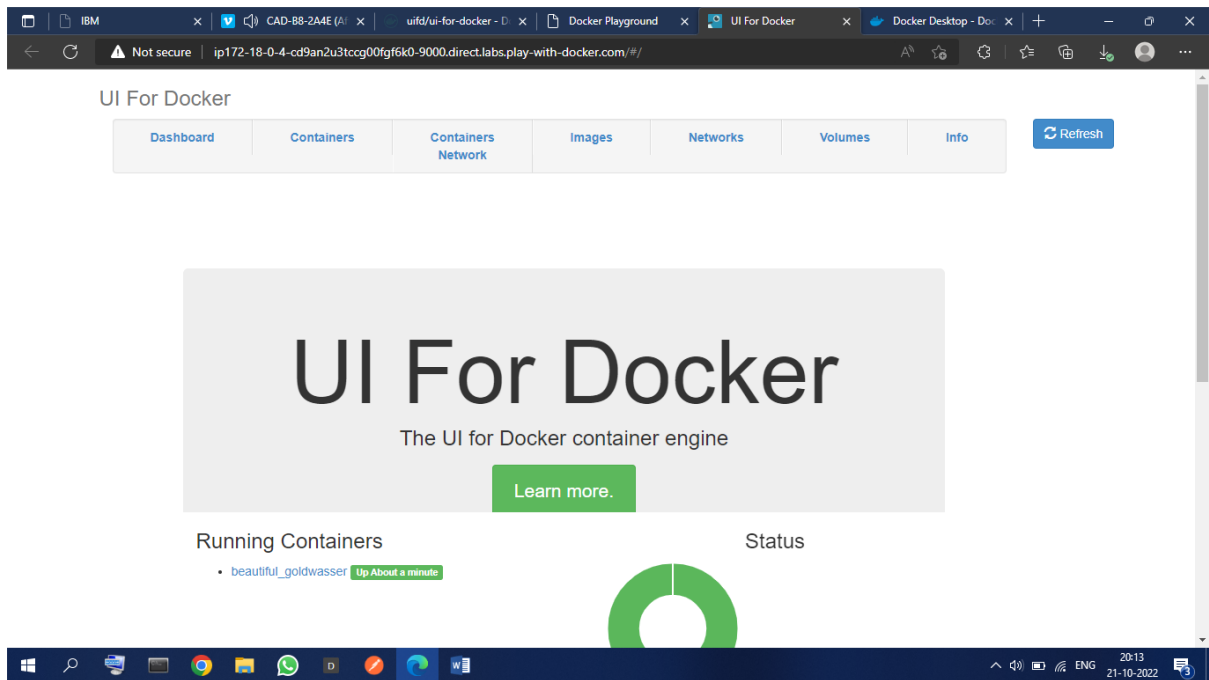


The screenshot shows the Docker Hub page for the repository `uifd/ui-for-docker`. The page header includes the Docker Hub logo, a search bar with the text `uifd/ui-for-docker`, and navigation links for Explore, Repositories, Organizations, and Help. The repository page shows the repository name `uifd/ui-for-docker` with a star icon, the maintainer `By uifd`, and a note stating "A web interface for Docker, formerly known as DockerUI. Deprecated, use Portainer for new features." Below this, there are tabs for Overview and Tags. The Overview tab is active, showing a description of the repository and a Docker Pull Command: `docker pull uifd/ui-for-docker`. The page also indicates that the repository is deprecated and development continues at `portainer/portainer`.



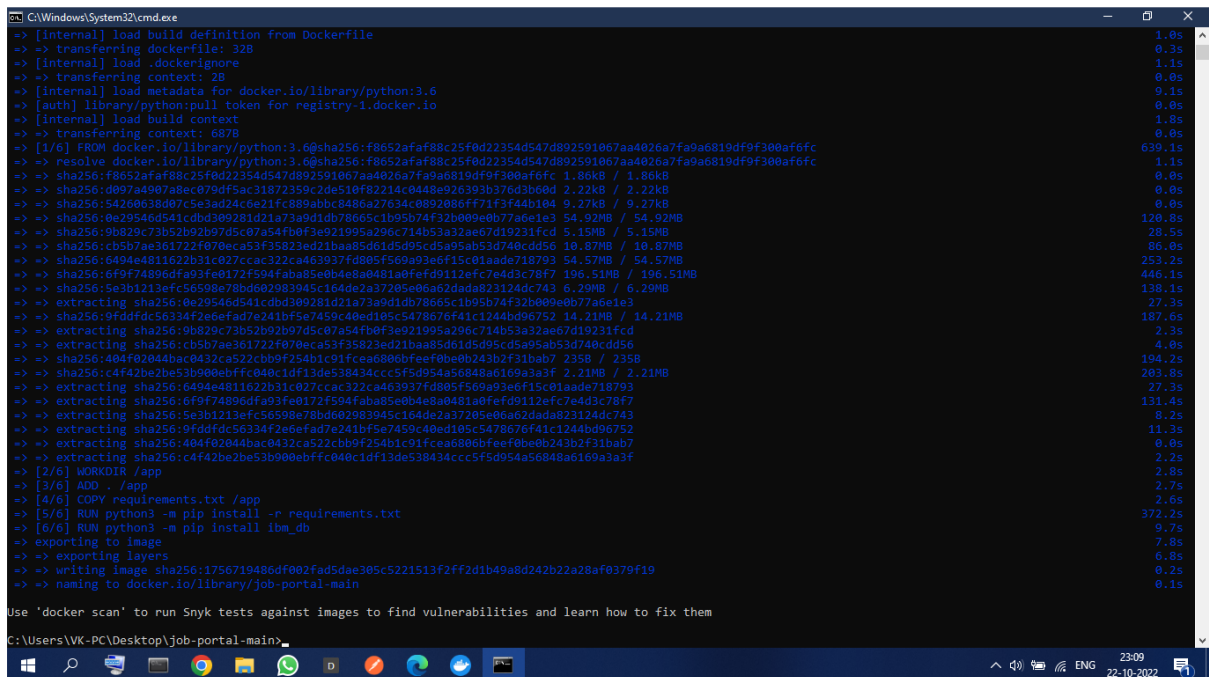
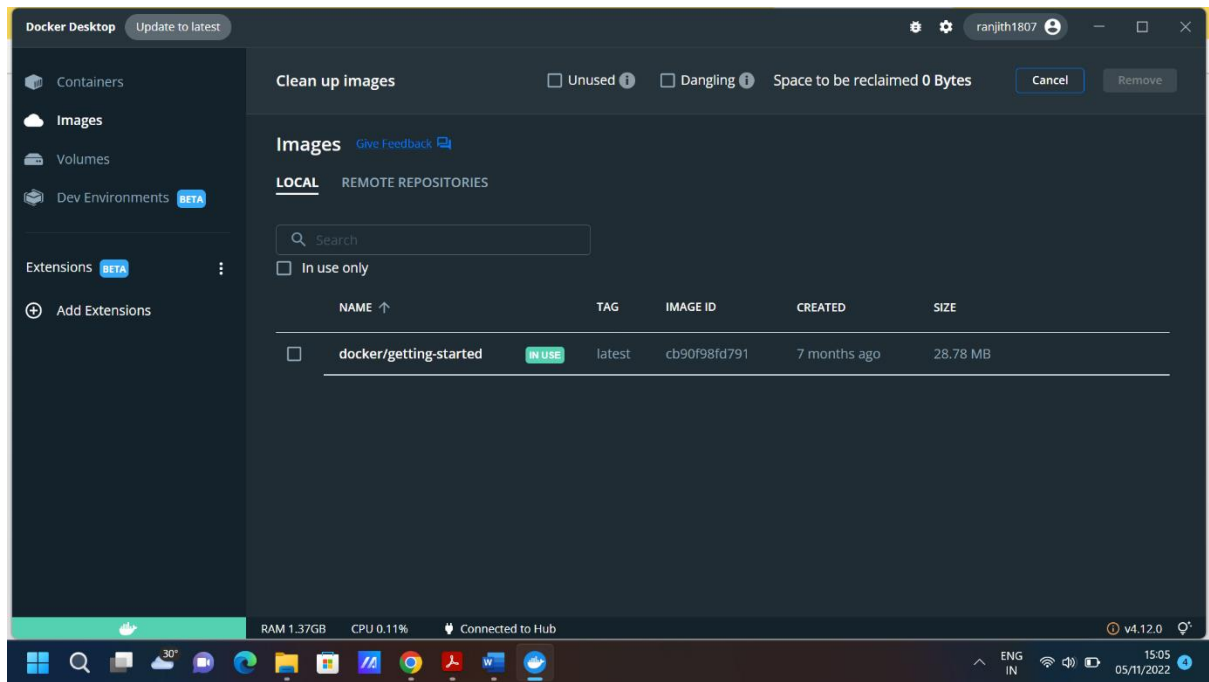
The screenshot shows the Docker Playground interface. On the left, there is a sidebar with a timer showing `03:50:15`, a `CLOSE SESSION` button, and a list of instances. The main area displays the details of a selected instance named `cdj37iv0_cdj38270jk6g00f9qe10`. The instance details include the IP address `192.168.0.23`, memory usage `3.90% (155.8MiB / 3.906GiB)`, CPU usage `1.28%`, and a URL. Below the details, there is a `DELETE` button. The terminal output shows the following commands and their results:

```
[node1 ~]$  
[node1 ~]$ 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 ~]$ root@192.168.0.23  
bash: root@192.168.0.23: command not found  
[node1 ~]$ docker run -d -p 9000:9000 --privileged uifd/ui-for-docker -H tcp://127.0.0.1:2375  
ed6ded035df12cb0decbb44a48afc14b0d62f1f6d1b1bcabb532392ce1e24ae8f  
[node1 ~]$ docker run -d -p 9000:9000 --privileged uifd/ui-for-docker -H tcp://127.0.0.1:2375  
50161b0a4df409c06f1757f7641c03ef89941fd25d1e322a073dd50391e4c565  
docker: Error response from daemon: driver failed programming external connectivity on endpoint pedantic_cur
```



Question 2:

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



Question 3:

Create a IBM container registry and deploy helloworld app or jobportalapp.

Question 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