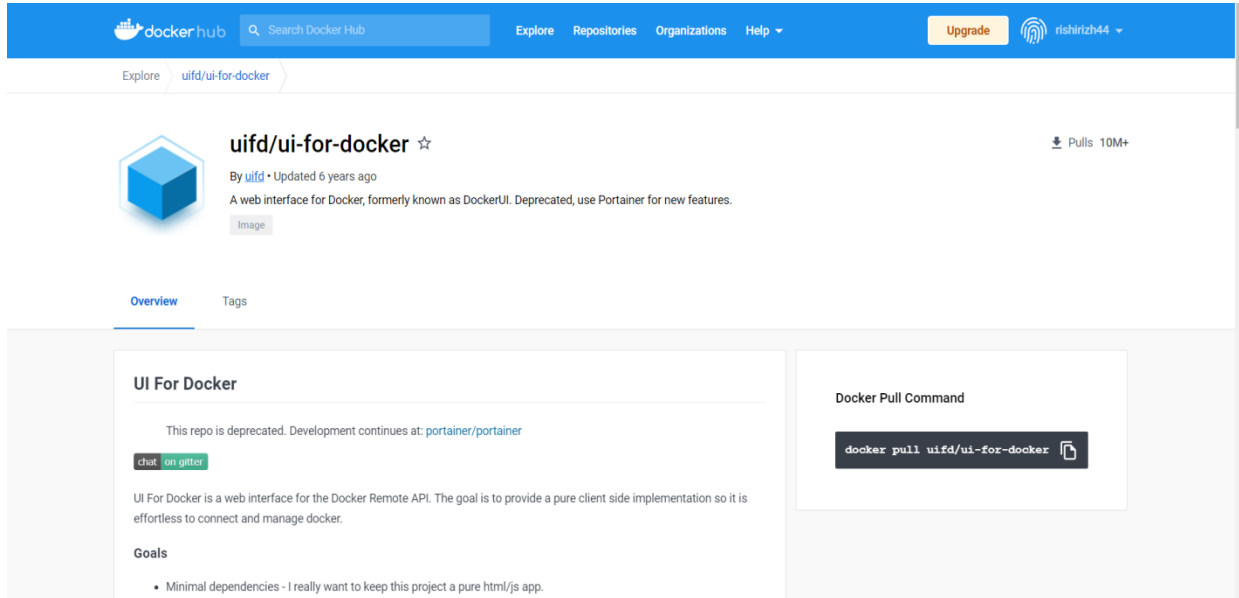


Assignment -4

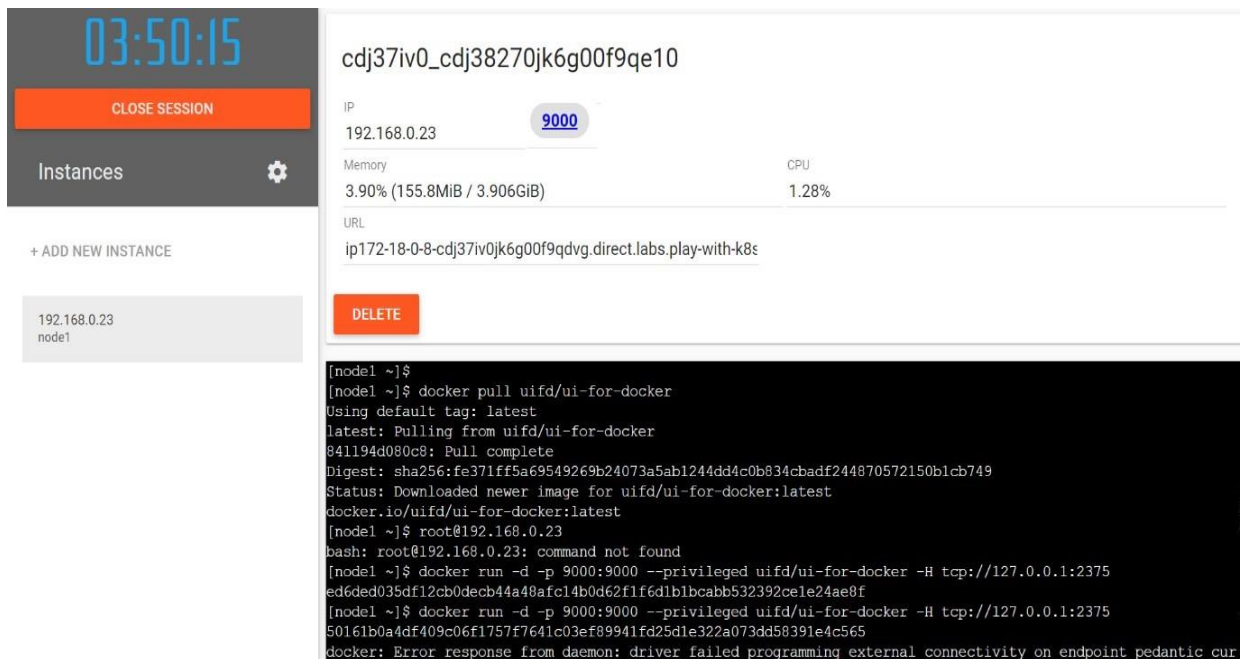
Docker and Kubernetes

Question-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 header includes the Docker Hub logo, a search bar, and navigation links for Explore, Repositories, Organizations, and Help. The repository name `uifd/ui-for-docker` is displayed with a star icon and a pull count of 10M+. Below the repository name, it states "By uifd • Updated 6 years ago" and "A web interface for Docker, formerly known as DockerUI. Deprecated, use Portainer for new features." The page has tabs for Overview and Tags. The Overview tab is active, showing a description: "This repo is deprecated. Development continues at: portainer/portainer" with links to chat and on github. It also lists goals, including "Minimal dependencies - I really want to keep this project a pure html/js app." A Docker Pull Command box shows the command `docker pull uifd/ui-for-docker`.



The screenshot shows the Docker Playground interface. On the left, there is a sidebar with a clock showing 03:50:15, a "CLOSE SESSION" button, and a list of instances. One instance is listed with IP 192.168.0.23 and name node1. The main area displays the details of the selected instance, including its IP (192.168.0.23), port (9000), memory usage (3.90% / 155.8MiB / 3.906GiB), CPU usage (1.28%), and URL. A "DELETE" button is visible. Below the instance details, a terminal window shows the following commands and output:

```
[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  
ed6ded035df12cb0dec44a48af4c14b0d62f1f6d1b1bcabb532392ce1e24ae8f  
[node1 ~]$ docker run -d -p 9000:9000 --privileged uifd/ui-for-docker -H tcp://127.0.0.1:2375  
50161b0a4df409c06f1757f7641c03ef89941fd25d1e322a073dd58391e4c565  
docker: Error response from daemon: driver failed programming external connectivity on endpoint pedantic-cur
```

UI For Docker

The UI for Docker container engine

Learn more.

Running Containers

- beautiful_goldwasser Up About a minute

Status



Running Containers

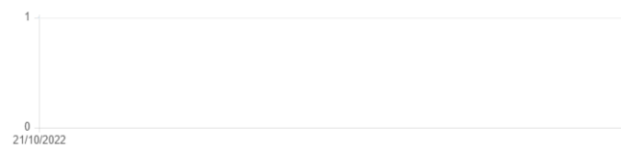
- beautiful_goldwasser Up About a minute

Status

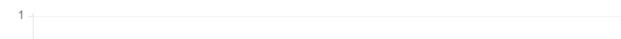


Running Stopped Ghost

Containers created

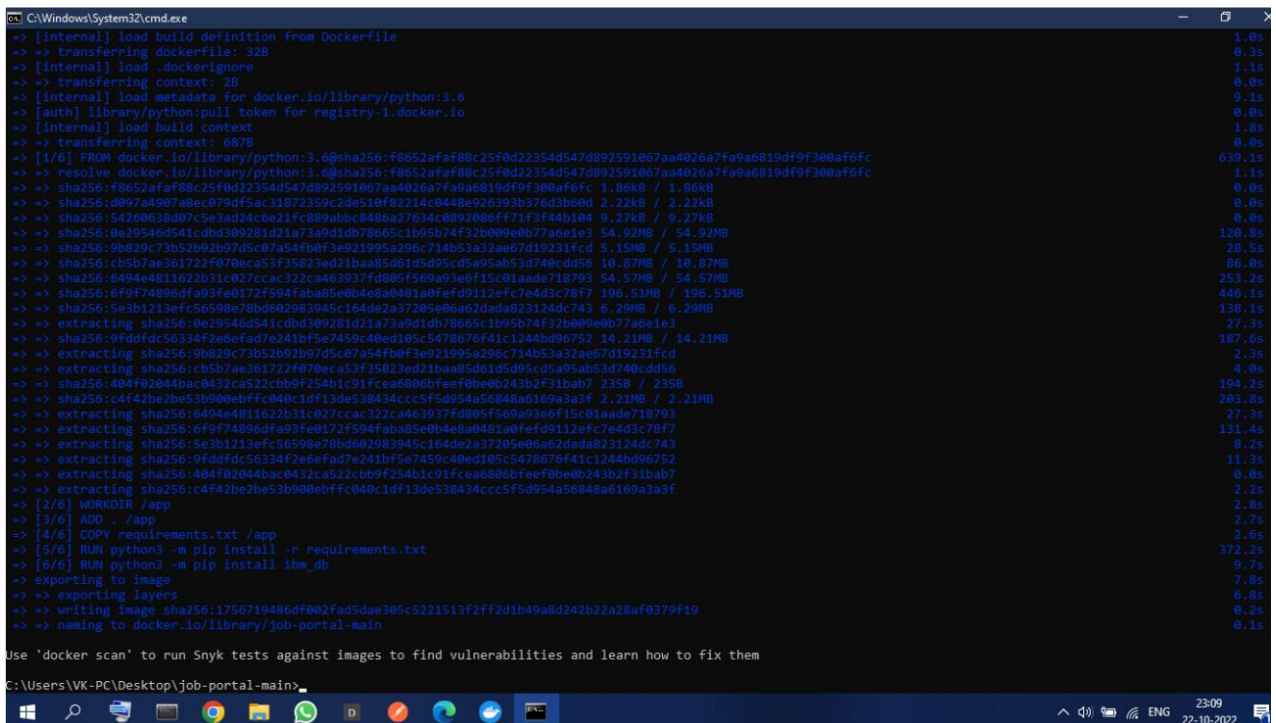
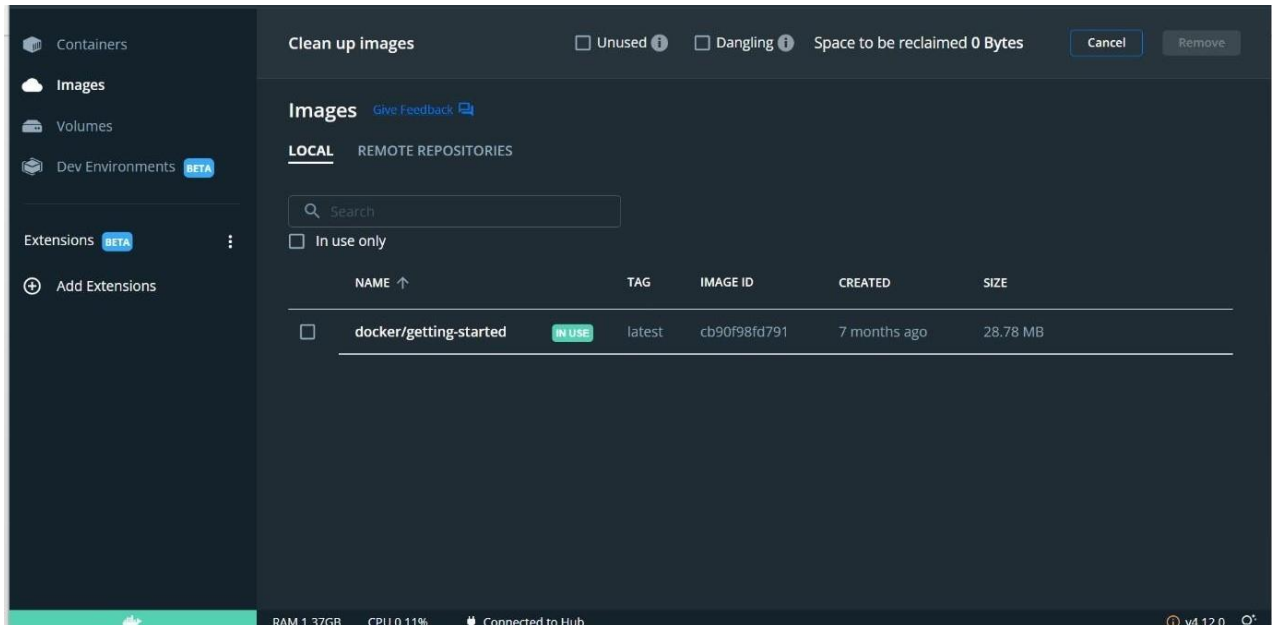


Images created



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