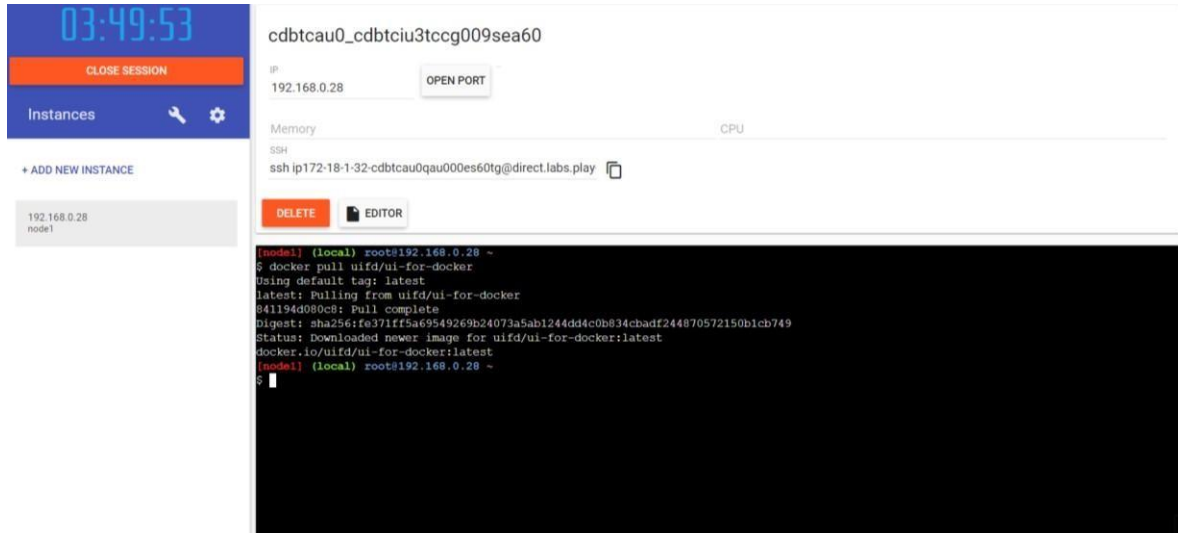


## Assignment -4

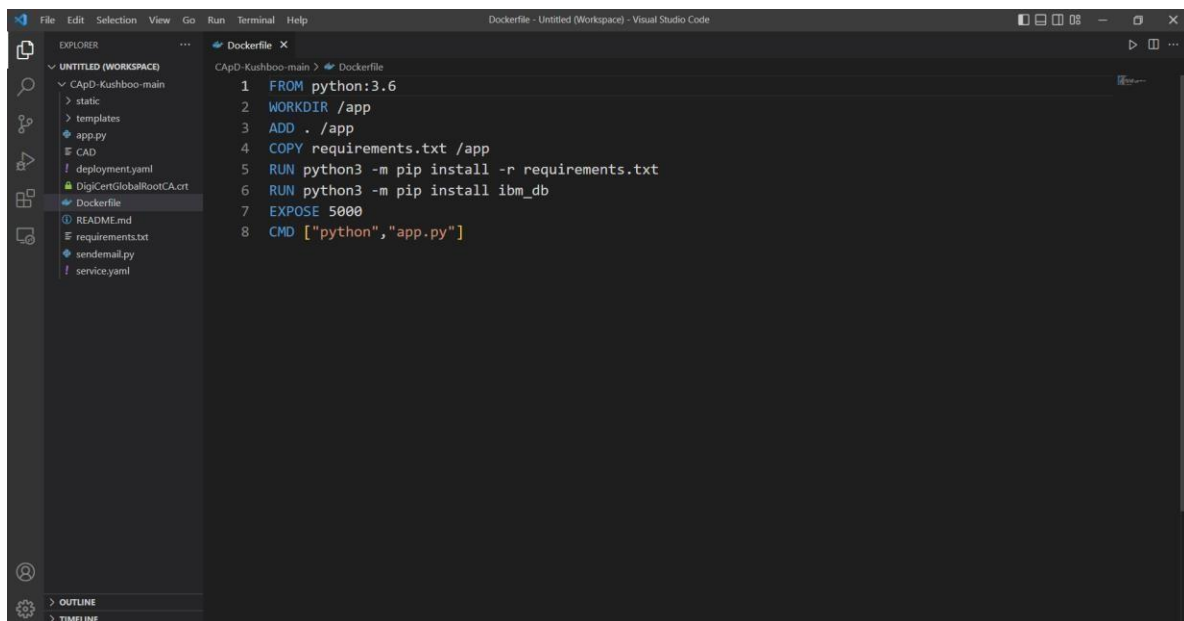
### Question 1:

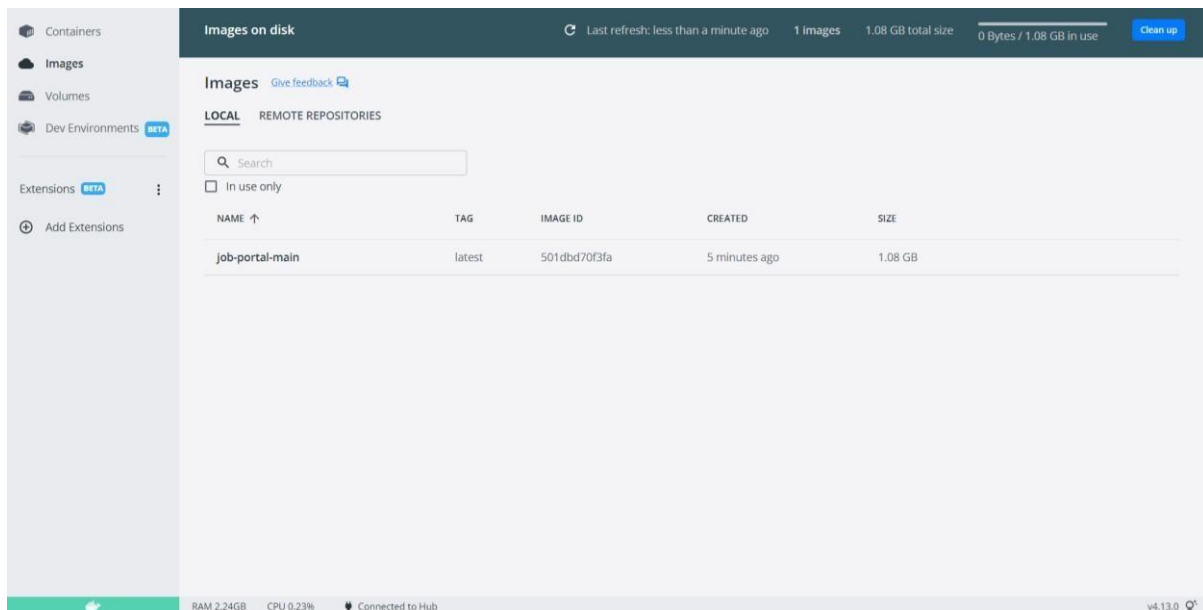
1. Pull an Image from docker hub and run it in docker playground



### Question 2:

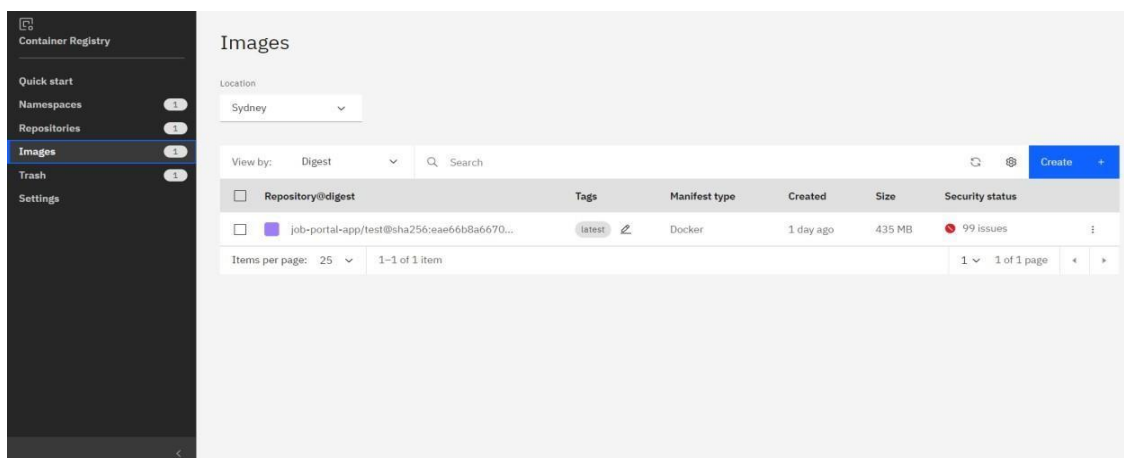
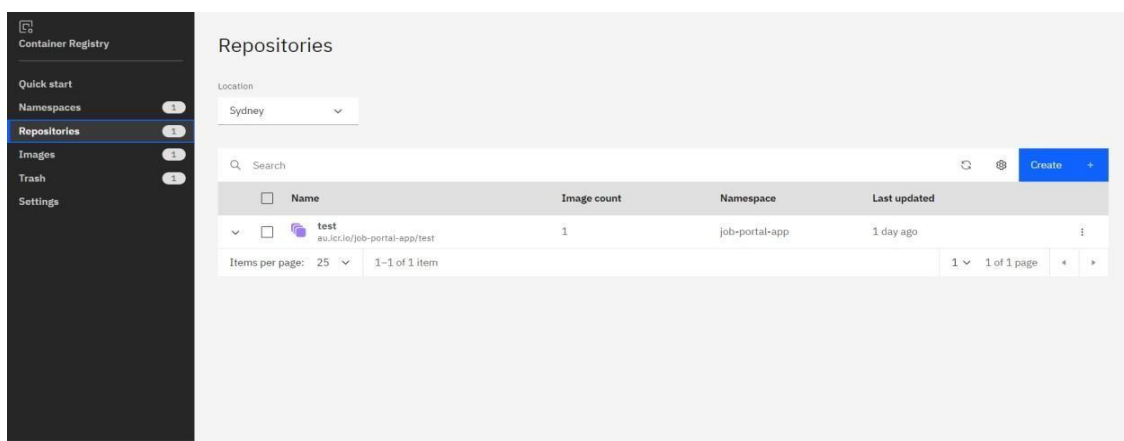
2. Create a docker file for the job portal application and deploy it in Docker desktop application.





### Question 3:

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



```
Command Prompt - docker run -p 5000:5000 au.icr.io/job-portal-app/test

C:\Users\user>docker push job-portal-main au.icr.io/job-portal-app/test
"docker push" requires exactly 1 argument.
See 'docker push --help'.

Usage:  docker push [OPTIONS] NAME[:TAG]


Push an image or a repository to a registry

C:\Users\user>docker tag job-portal-main au.icr.io/job-portal-app/test

C:\Users\user>docker push au.icr.io/job-portal-app/test
Using default tag: latest
The push refers to repository [au.icr.io/job-portal-app/test]
98ff7c020340: Mounted from job-portal-app/testrepo
1a833c3efab0: Mounted from job-portal-app/testrepo
4c67e693b201: Mounted from job-portal-app/testrepo
a34f7e8dc45: Mounted from job-portal-app/testrepo
789453578d11: Mounted from job-portal-app/testrepo
aad4808c19f6: Mounted from job-portal-app/testrepo
8ba9f69a8e8ba: Mounted from job-portal-app/testrepo
3e607d59ef9f: Mounted from job-portal-app/testrepo
1e18e7ef1cc2: Mounted from job-portal-app/testrepo
c3a0d593ed24: Mounted from job-portal-app/testrepo
2aa504e63be4: Mounted from job-portal-app/testrepo
8bf42b0bde72: Mounted from job-portal-app/testrepo
31892cc314cb: Mounted from job-portal-app/testrepo
11936051f93b: Mounted from job-portal-app/testrepo
latest: digest: sha256:eae66b8a6670d0f8f4a8fab20d08acc277b93348a54e0755caa586242ba2c01b size: 3259

C:\Users\user>docker pull au.icr.io/job-portal-app/test
Using default tag: latest
latest: Pulling from job-portal-app/test
Digest: sha256:eae66b8a6670d0f8f4a8fab20d08acc277b93348a54e0755caa586242ba2c01b
Status: Image is up to date for au.icr.io/job-portal-app/test:latest
au.icr.io/job-portal-app/test:latest

C:\Users\user>docker run -p 5000:5000 au.icr.io/job-portal-app/test
* Serving Flask app "app" (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: off
* Running on all addresses.
  WARNING: This is a development server. Do not use it in a production deployment.
* Running on http://172.17.0.2:5000/ (Press CTRL+C to quit)
172.17.0.1 - - [27/Oct/2022 13:43:20] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [27/Oct/2022 13:43:20] "GET /css/style.css HTTP/1.1" 404 -
172.17.0.1 - - [27/Oct/2022 13:43:21] "GET /static/img/smartintern.png HTTP/1.1" 404 -
```



[LOGIN](#) [REGISTER](#) [CONTACT US](#)

## Aboutus

### Mission

SMARTBRIDGE is an edTech organization with a vision to bridge the gap between academia & industry. Our outcome-based experiential learning programs on emerging technologies (Internet of Things, Machine Learning, Data Science, Artificial Intelligence, Robotics) are building skilled entry - level engineers, for the corporate world..

### Vission

Our main objective is to bridge the existing gaps between prevailing industry standards and what the academics offer to the graduates while passing out of university. SmartBridge offers suitable skill deployment and training to the young talent before on boarding their first job. Our skill development programs are designed considering the present expectations in the industry.

### Objective

Well directed career guidance programs for educational institutions  
Appropriate certification courses that suit the industry need  
Train the trainers; expanded awareness about the current industry standards  
Liaise with corporates to offer niche internships  
Establish technology development centers in colleges  
Specialised incubation centers in collaboration with corporates

### JobPortal

Lorem ipsum dolor sit amet consectetur adipiscing elit. Voluptatum quis, reiendis id magni magnam, accusamus nobis in, temporibus molestias ab placeat rerum aperiam illum perspiciatis ducimus non! Fugiat, odit ducimus.

### Get in Touch

- [jobportal@gmail.com](mailto:jobportal@gmail.com)
- [+91 8977787657](tel:+918977787657)

## Question 4:

4. Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and expose the same app to run in node port.

The screenshot shows the IBM Cloud Kubernetes dashboard for a cluster named 'mycluster-free'. The cluster is in a 'Normal' state and will expire in 30 days. The dashboard displays the following information:

- Node status:** 1 of 1 nodes, Normal.
- Add-on status:** 0 of 0 add-ons, Normal.
- Master status:** Normal.
- Ingress status:** Unknown.
- Details:**
  - Cluster ID: ccd9137f0ehkxau52o0
  - Version: 1.23.13\_1550
  - Infrastructure: Classic
  - Zones: Milan 01
  - Created: 27/10/2022, 7:37 pm
  - Resource group: Default
  - Image security enforcement: Enable
- Node health:** Worker node details

The screenshot shows the JobPortal website. The header includes the 'sheep-logo' and navigation links for LOGIN, REGISTER, and CONTACT US. The main content area is titled 'Aboutus' and contains three columns:

- Mission:** SMARTBRIDGE is an edTech organization with a vision to bridge the gap between academia & industry. Our outcome-based experiential learning programs on emerging technologies (Internet of Things, Machine Learning, Data Science, Artificial Intelligence, Robotics) are building skilled entry-level engineers, for the corporate world.
- Vission:** Our main objective is to bridge the existing gaps between prevailing industry standards and what the academics offer to the graduates while passing out of university. SmartBridge offers suitable skill deployment and training to the young talent before on boarding their first job. Our skill development programs are designed considering the present expectations in the industry.
- Objective:** Well directed career guidance programs for educational institutions. Appropriate certification courses that suit the industry need. Train the trainers; expanded awareness about the current industry standards. Liaise with corporates to offer niche internships. Establish technology development centers in colleges. Specialised incubation centers in collaboration with corporates.

Below the 'Aboutus' section, there are two more sections:

- JobPortal:** Lorem ipsum dolor sit amet consectetur adipiscing elit. Voluptatum quis, reiciendis id magni magnam, accusamus nobis in, temporibus molestias ab placeat rerum aperiam illum perspiciatis ducimus non! Fugiat, odit ducimus.
- Get in Touch:**
  - jobportal@gmail.com
  - +91 8977787657