

Assignment -4

Team ID : PNT2022TMID11900

Team Size: 4

Team Leader: Roopan Raj P

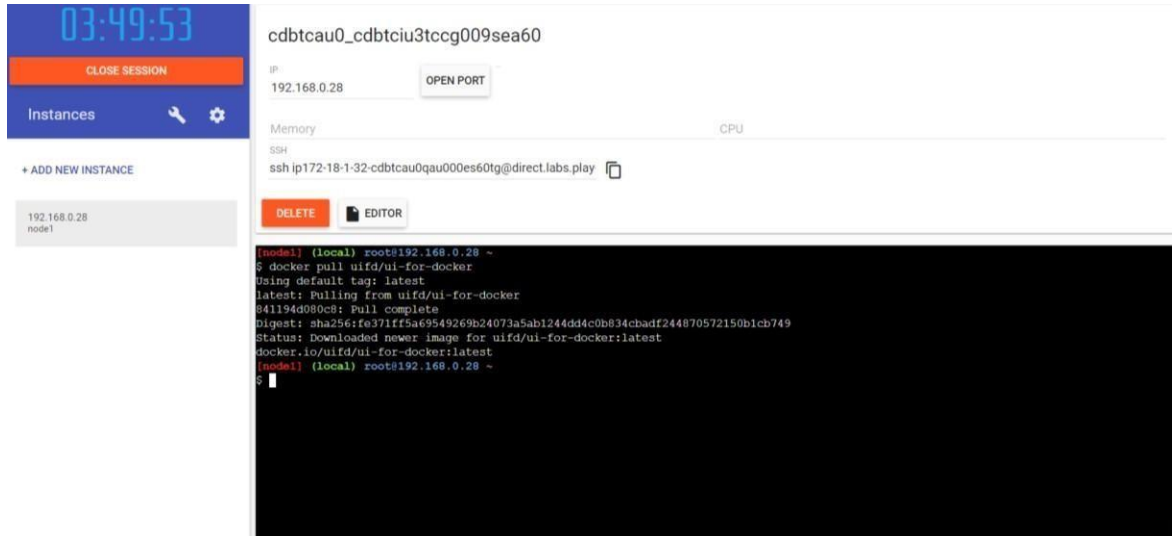
Team member : Muthukumar S

Team member: Karthikeyan S

Team member: Tharun R

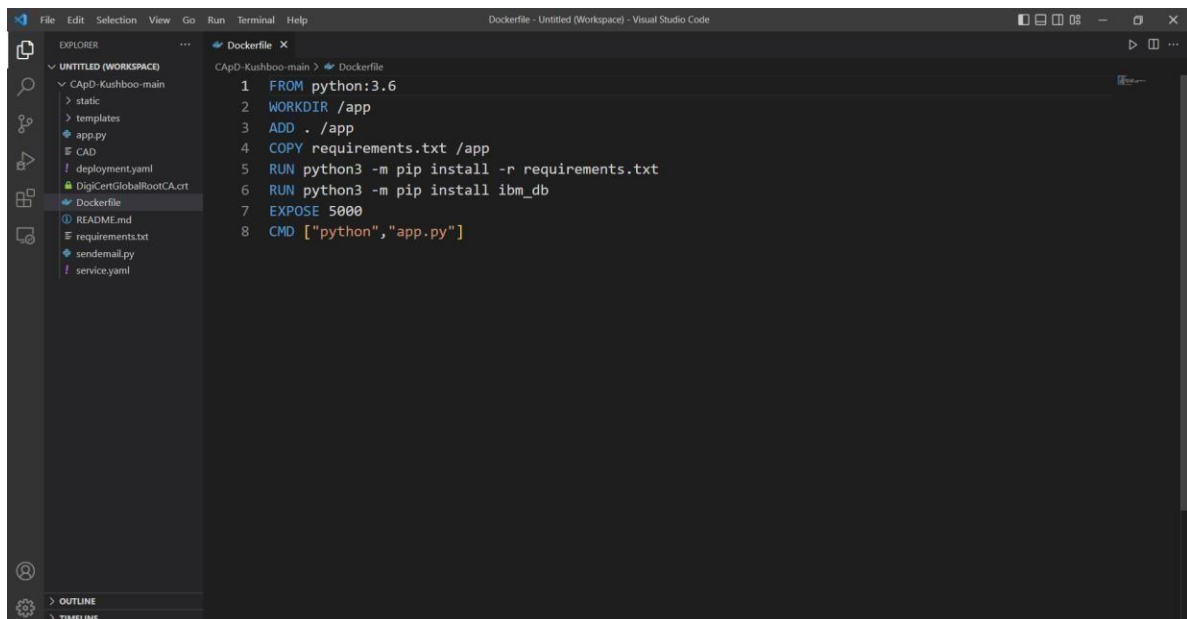
Question 1:

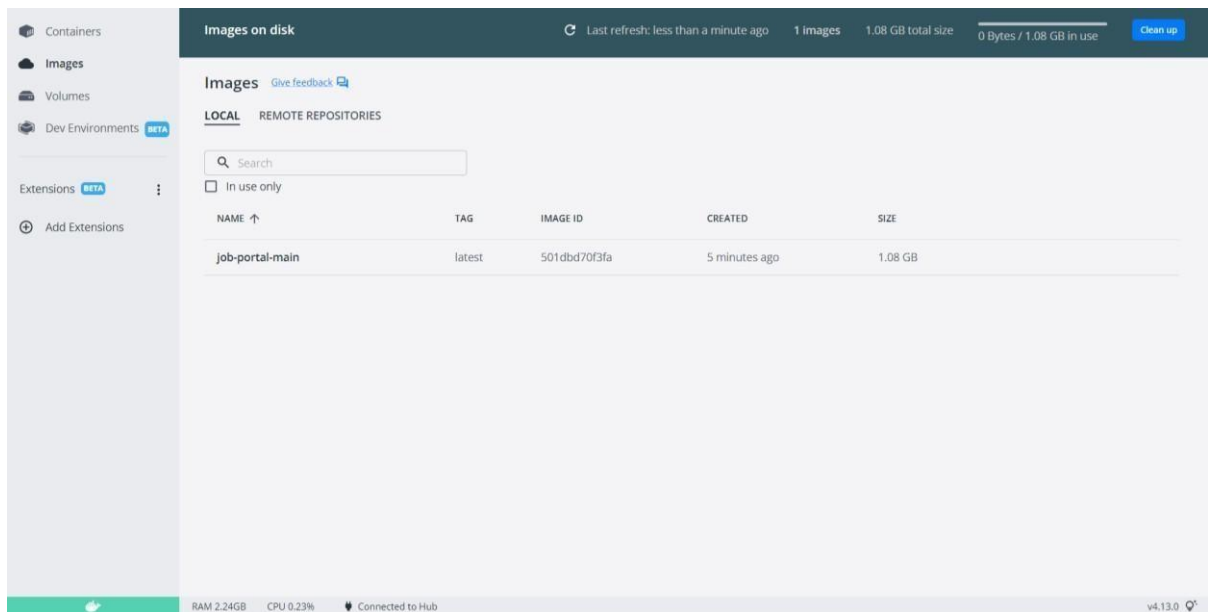
1. Pull an Image from the docker hub and run it in the docker playground.



Question 2:

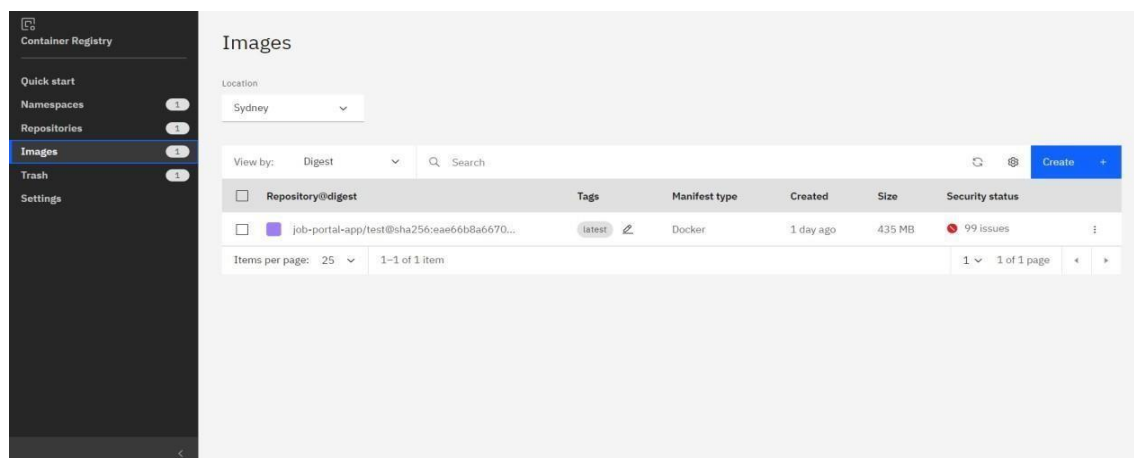
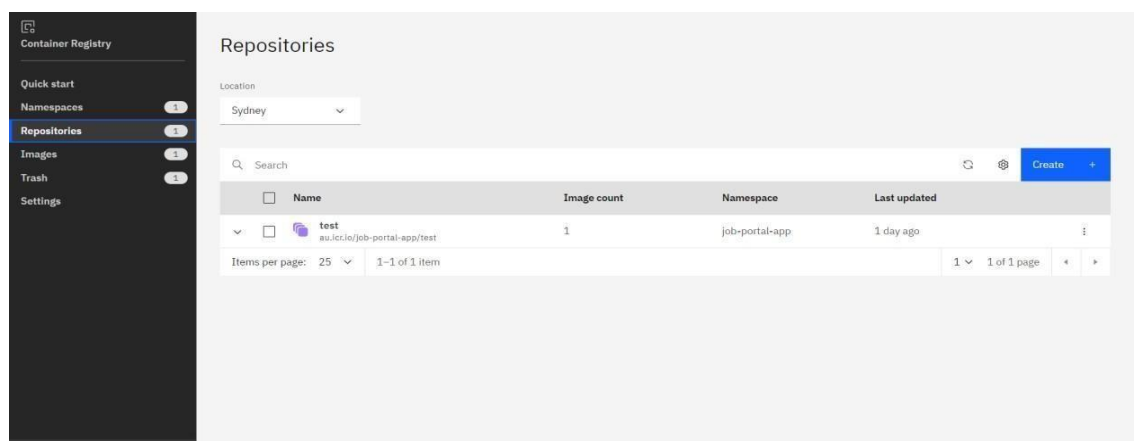
2. Create a docker file for the job portal application and deploy it in the Docker desktop application.





Question 3:

3. Create an IBM container registry and deploy the HelloWorld app or job portal app.



```
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
1a33e3e34f0b: Mounted from job-portal-app/testrepo
4667e693b201: Mounted from job-portal-app/testrepo
a34f7e8dcb45: Mounted from job-portal-app/testrepo
789453578d11: Mounted from job-portal-app/testrepo
aa4c888c19f6: Mounted from job-portal-app/testrepo
8a9f690e08a: Mounted from job-portal-app/testrepo
3e607d59ef9f: Mounted from job-portal-app/testrepo
1e18e7e1fcc2: Mounted from job-portal-app/testrepo
3a0d593ed24: Mounted from job-portal-app/testrepo
2aa504ed30d4: Mounted from job-portal-app/testrepo
8bf42db0de72: Mounted from job-portal-app/testrepo
31892cc314cb: Mounted from job-portal-app/testrepo
11936051f93b: Mounted from job-portal-app/testrepo
latest: digest: sha256:eae668a6670d0f8f4a8fab20d08acc277b93348a54e0755caa586242ba2c01b 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:eae668a6670d0f8f4a8fab20d08acc277b93348a54e0755caa586242ba2c01b
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/smartintenz.png HTTP/1.1" 404 -
```



LOGINREGISTERCONTACT 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 adipisicing 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

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 expires in 30 days. The dashboard includes a sidebar with navigation links: Overview, Worker nodes, Worker pools, and DevOps (marked as 'New'). The main content area displays the cluster's status and details. A warning banner at the top states: 'Expires in 30 days: Be sure to back up your data, your cluster will be deleted in 30 days. To access the full capabilities of the service, try out a standard cluster.' Below this, four status cards are shown: Node status (1 of 1, Normal), Add-on status (0 of 0, Normal), Master status (Normal), and Ingress status (Unknown). The 'Details' section provides information about the cluster ID (cdd9137f80hzksau52o0), version (1.23.13_1550), infrastructure (Classic), zones (Milan 01), creation time (27/10/2022, 7:37 pm), resource group (Default), and an 'Image security enforcement' toggle set to 'Enable'. A 'Node health' section is also visible at the bottom.

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, Vision, and Objective. The Mission column describes SMARTBRIDGE as an edTech organization. The Vision column states the main objective is to bridge the gap between industry standards and academia. The Objective column lists well-directed career guidance programs. Below the 'Aboutus' section, there are two more sections: 'JobPortal' with a placeholder text and 'Get in Touch' with contact information (jobportal@gmail.com and +91 8977787657).