Assignment Number	4
Assignment Date	28 th October 2022
Student Name	Mohanyaa G K
Student Roll Number	727619BIT013
Maximum marks	2 MARKS

Question:

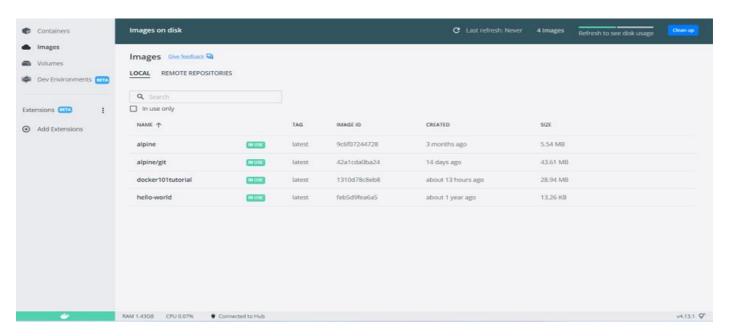
- 1. Pull an Image from docker hub and run it in docker playground.
- **2.** Create a dockerfile for the job portal / flask application and deploy it inDocker desktop application.
- **3.** Create an IBM container registry and push a docker image of a flaskapplication or job portal app.
- **4.** Create a Kubernetes cluster in IBM cloud and deploy flask applicationimage or job portal image and also expose the same app to run in nodeport.

Answers:

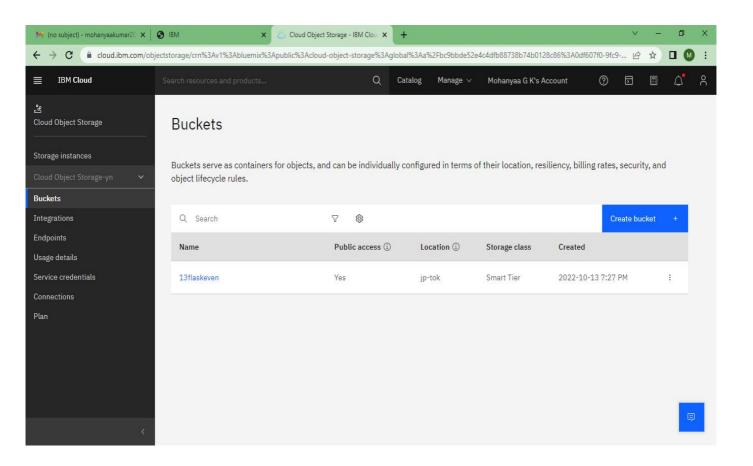
1. Pull an Image from docker hub and run it in docker playground.



2.Create a dockerfile for the job portal / flask application and deploy it in Docker desktop application.



3.Create an IBM container registry and push a docker image of a flask application or job portal app.



4. Create a Kubernetes cluster in IBM cloud and deploy flask application image or job portal image and also expose the same app to run in nodeport

```
Change directory to Lab 1:
    cd "Lab 1"
Log in to the IBM Cloud CLI:
    ibmcloud login
    To specify an IBM Cloud region, include the API endpoint.
```

4. In order to upload images to the IBM Cloud Container Registry, you first need to create a namespace with the following command:

ibmcloud cr namespace-add <my_namespace>

5. Build the container image with a $_{1}$ tag and push the image to the IBM Cloud

Registry: ibmcloud cr build --tag us.icr.io/<my_namespace>/hello-world:1 .

6. Verify the image is built:

ibmcloud cr images