Assignment Number	**4**
Assignment Date	**28 October 2022**
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Maximum marks	**2 Marks**

Questions:

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

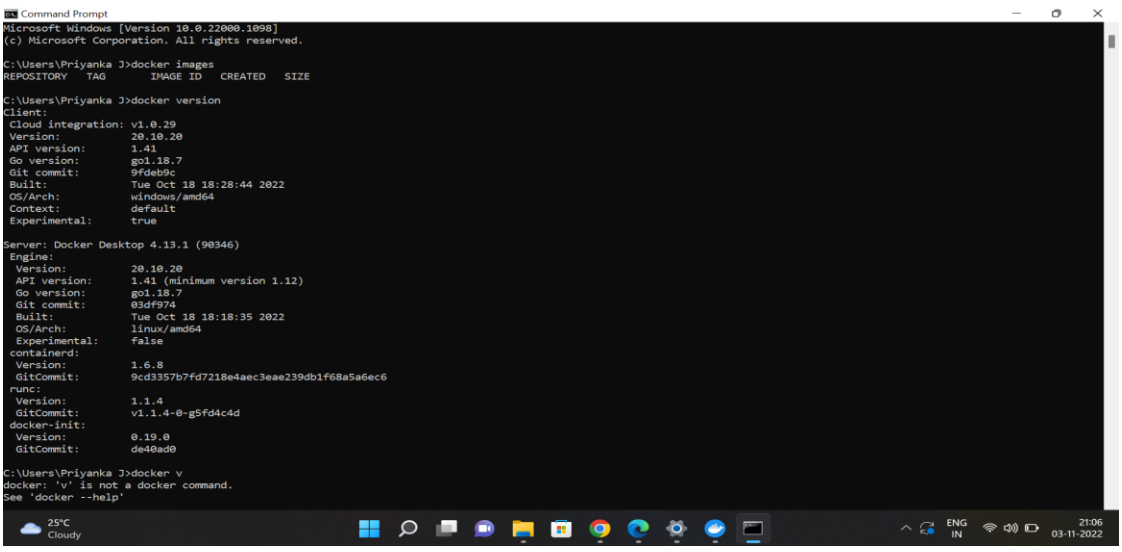
2. Create a docker file for the job portal / flask application and deploy it in Docker desktop application.

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

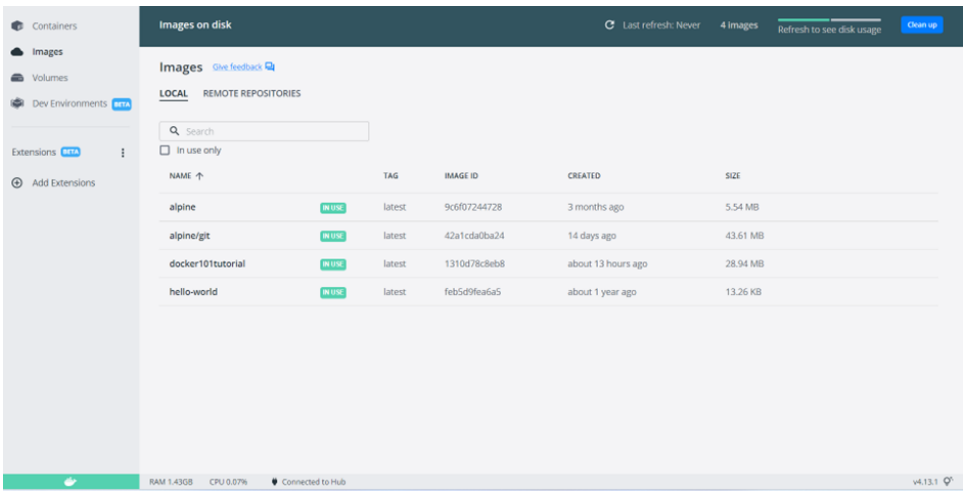
4. Create a Kubernetes cluster in IBM cloud and deploy flask application image or job portal image and also expose the same app to run in node port.

Answers:

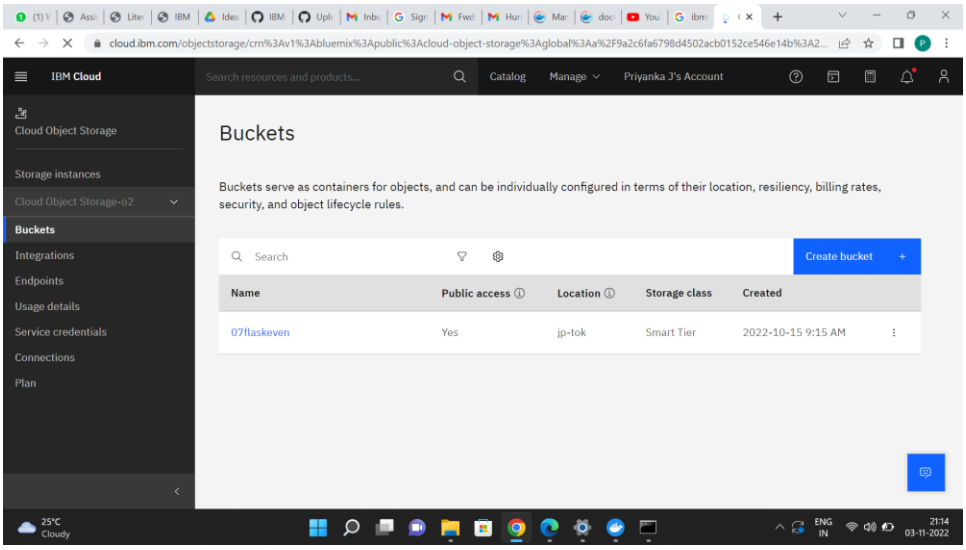
1. Pull an Image from docker hub and run it in docker playground.



2. Create a docker file 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 expose the same app to run in node port.

2. Change directory to Lab 1:

```
cd "Lab 1"
```

3. 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
```