ASSIGNMENT-4
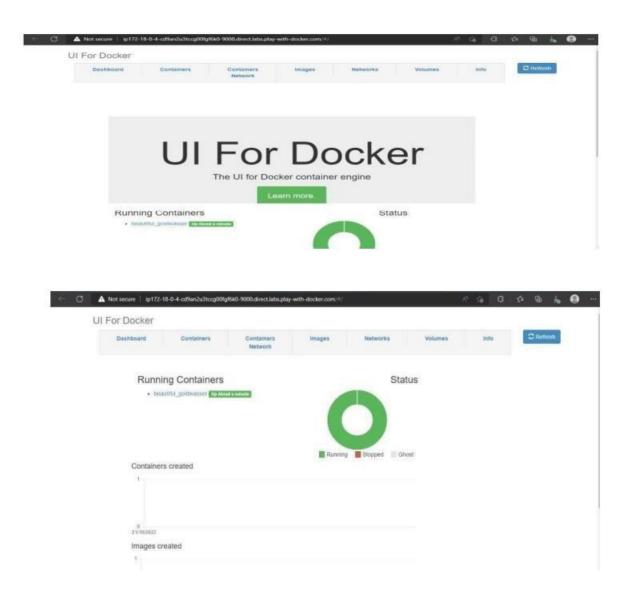
Docker and Kubernetes
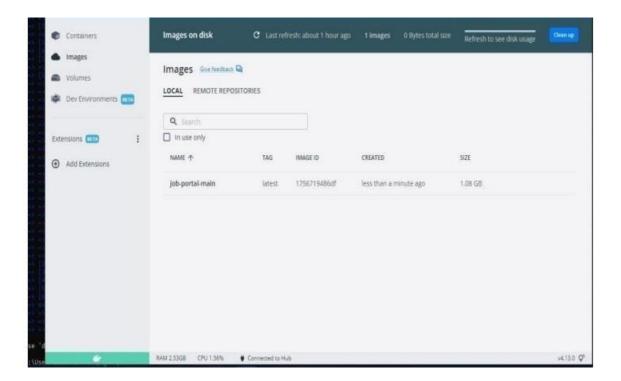
Student Name	MOHAMMED SHIYAS S
Student Roll Number	727719EUCS089
Maximum Marks	2 Marks

1.Pull an image from docker hub and run it in docker playground:
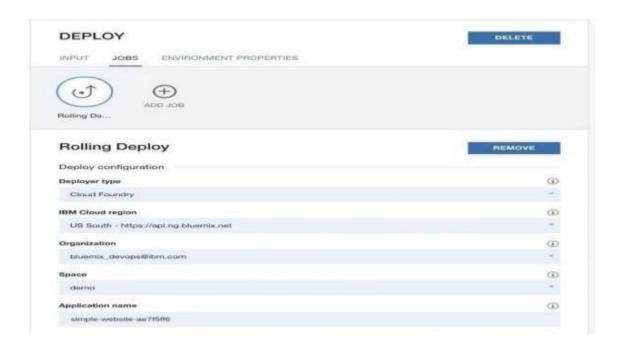
2.Create a docker file for the jobportal application and deploy it in Docker desktop application:

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

```
1   {
2       "ServiceId": "com.ibm.cloudoe.orion.client.deploy",
3       "Params": {
4         "Target": {
5           "Url": "https://api.ng.bluemix.net",
6           "Org": "bluemix_devops@ibm.com",
7           "Space": "demo"
8         },
9         "Name": "simple-website-ae7f5ff6",
10        "Instrumentation": {}
11      },
12      "Path": "manifest.yml",
13      "Type": "Cloud Foundry"
14  }
```

Hello, IBM Cloud World!

4.Create a Kubernetes cluster in IMB cloud and deploy helloworld image or jobportal imageand also expose the same app to run nodeport:

Hello World!

Thanks for creating an IBM Cloud Databases for PostgreSQL database.

Add a word to the database

The word [hello] is defined as [a greeting] [Add]

Database output

```
The word bye is defined as a goodbye
The word bye is defined as a farewell
The word hello is defined as a greeting
The word hello is defined as a greeting
The word hello bob is defined as a greeting
The word hello bob is defined as a greeting
```