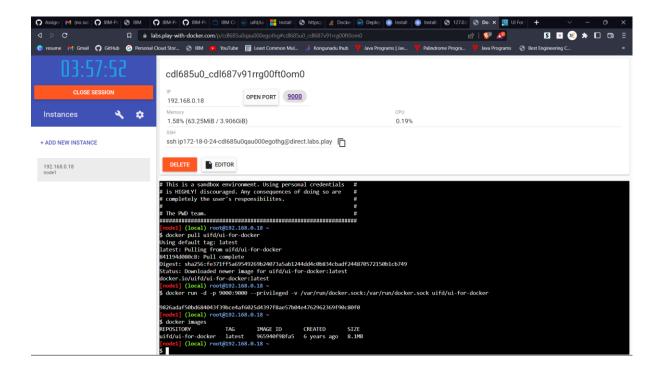
#### **Kubernetes / Docker**

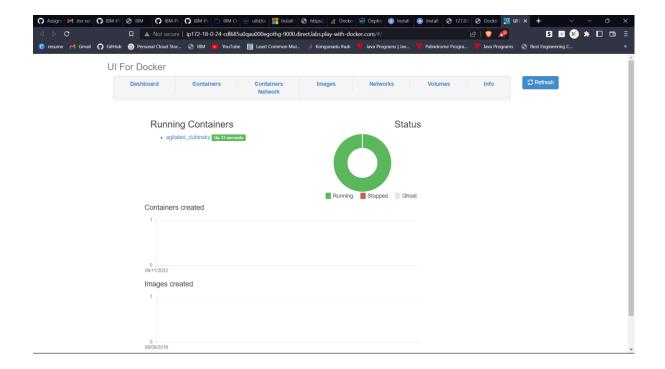
Assignment Date	11 November 2022
Student Name	Mr V vishal
Student Roll Number	621319205058
Maximum Marks	2 Marks

#### Question-1:

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

### **Solution:**





#### Question-2:

Create a docker file for the jobportal application and deploy it in Docker desktop application.

### **Solution:**

### app.py

```
from flask import *
app = Flask(__name__)
@app.route("/")
def home():
    return "Hello World"
if __name__ == "__main__":
    app.run(debug=True)
```

### **Dockerfile:**

FROM python:3.6

WORKDIR /app

ADD . /app

COPY requirements.txt /app

RUN python3 -m pip install -r requirements.txt

RUN python3 -m pip install ibm\_db

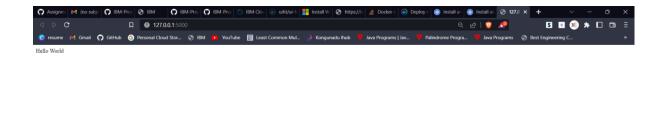
**EXPOSE 5000** 

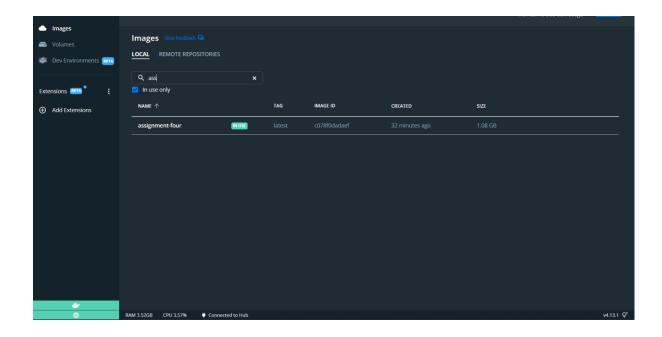
CMD ["python","app.py"]

```
| Commissions | Commission | Co
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* Serving Flask app 'app' (lazy loading) * Environment: production				
WARNING: This is a development server. Do not use it in a production deployment.				

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ths ago 21MB docker/desktop-storage-provisioner ths ago 41.9MB	v2.0	99f89471f470	18 mon
D:\OneDrive\Desktop\IBM Docs\Assignents\assignment-four>d * Serving Flask app 'app' (lazy loading)  * Environment: production WARNING: This is a development server. Do not use it i Use a production WSGI server instead.  * Debug mode: on  * Running on http://127.0.0.1:5000/ (Press CTRL+C to qui  * Restarting with stat  * Debugger is active!  * Debugger PIN: 509-750-282	n a production deployment.		

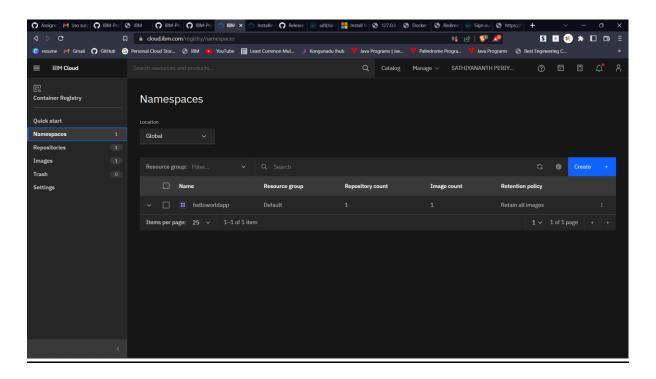


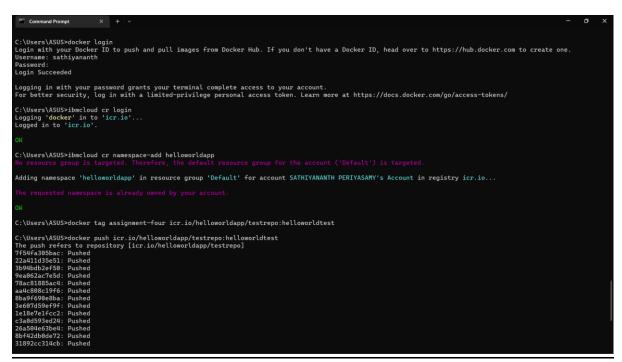


### Question-3:

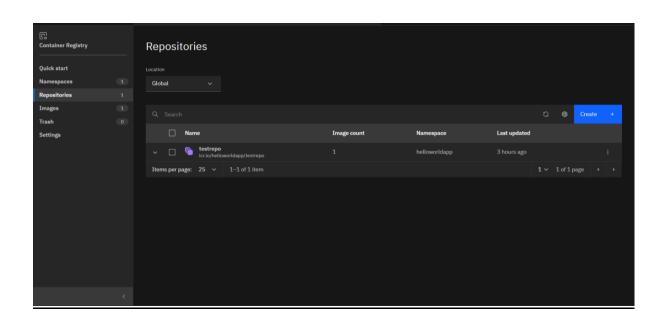
Create a IBM container registry and deploy helloworld app or jobportalapp.

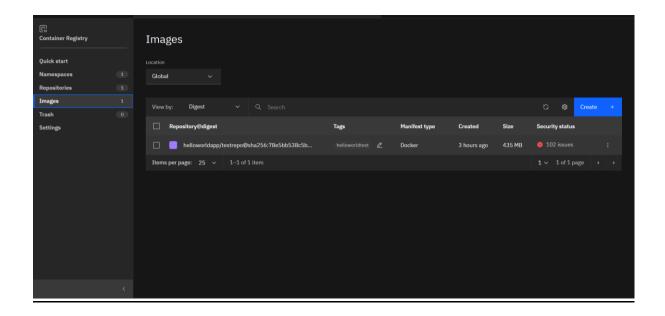
## **Solution:**











### Question-4:

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

# **Solution:**

