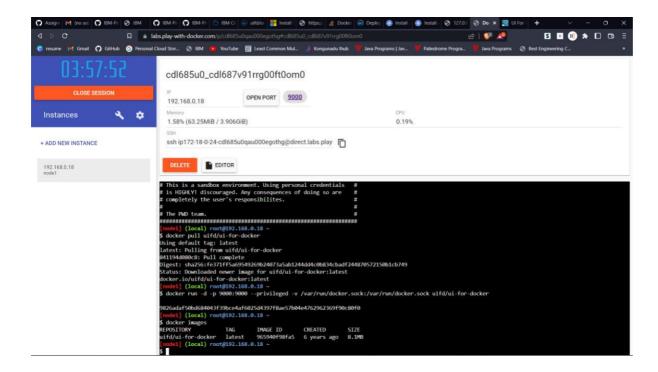
Kubernetes / Docker

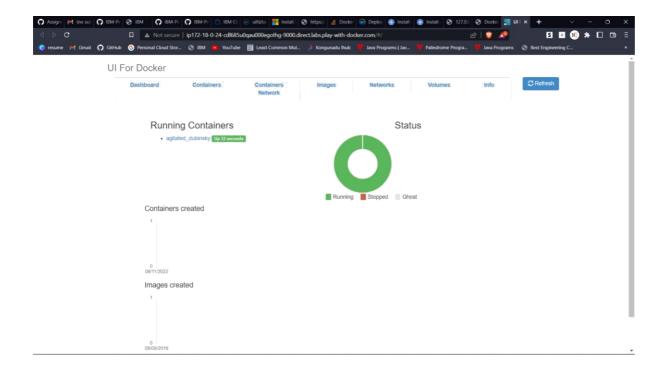
Assignment Date	11 November 2022
Student Name	Arun kumaar S
Student Roll Number	1919102017
Maximum Marks	2 Marks

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

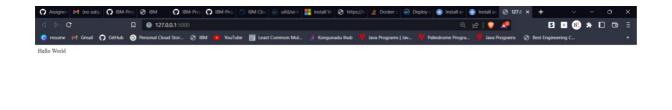
RUN python3 -m pip install ibm_db

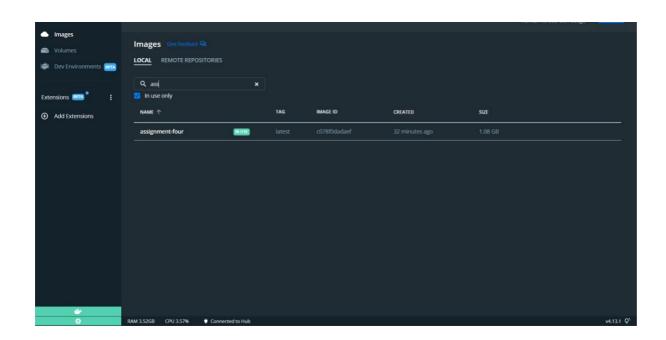
EXPOSE 5000

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

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s ago 128MB k8s.gcr.io/kube-scheduler	v1.25.2	caθealee3cfd	6 week	
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ths ago 21MB docker/desktop-storage-provisioner	v2.0	99f89471f470	18 mon	
hs ago 41.9MB):\OneDrive\Deskto\IBM Docs\Assigments\assignment-four>docker run -p 5000:5000 assignment-four * 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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D:\OneDrive\Desktop\IBM Docs\Assigments\assignment-four>docker run -p 5000:5000 assignment-four * Serving Flask app 'app' (lazy loading)					
* Serving reash app (tasy todaing) * Environment: production MARNING: This is a development server. Do not use it in a production deployment.					
When modes on the server instead. * Debug modes on					
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)					
* Restarting with stat * Debugger is active!					
* Debugger PIN: 509-750-282					

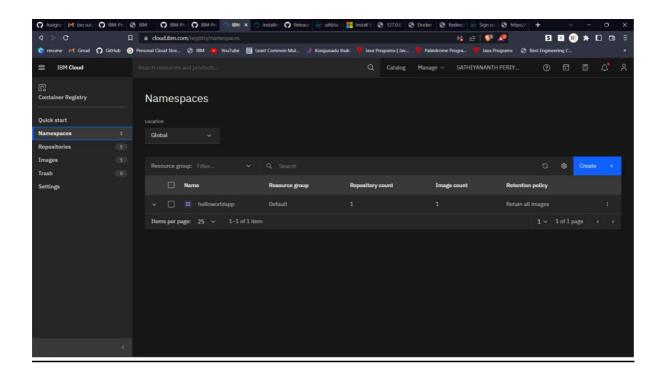


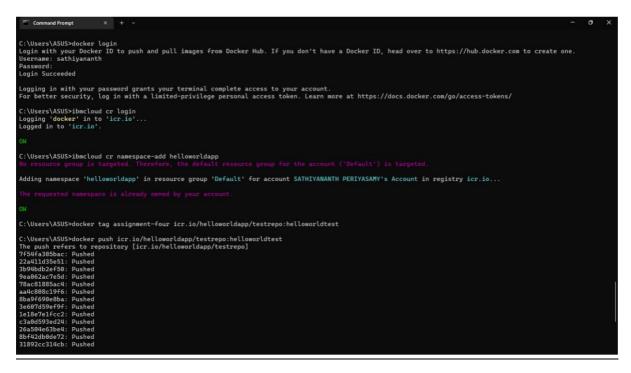


Question-3:

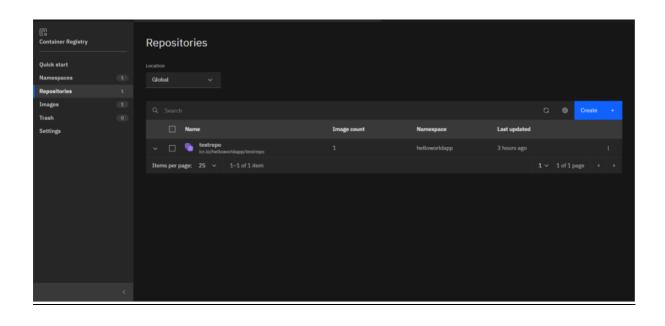
Create a IBM container registry and deploy helloworld app or jobportalapp.

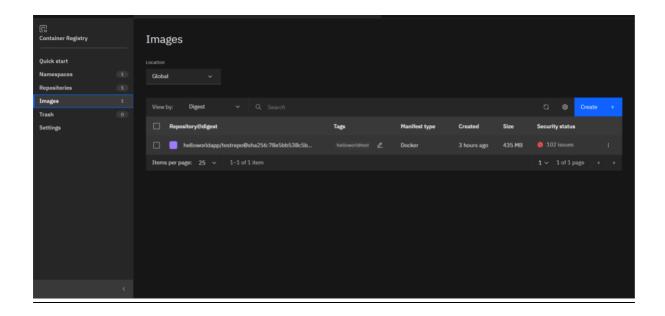
Solution:











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:

