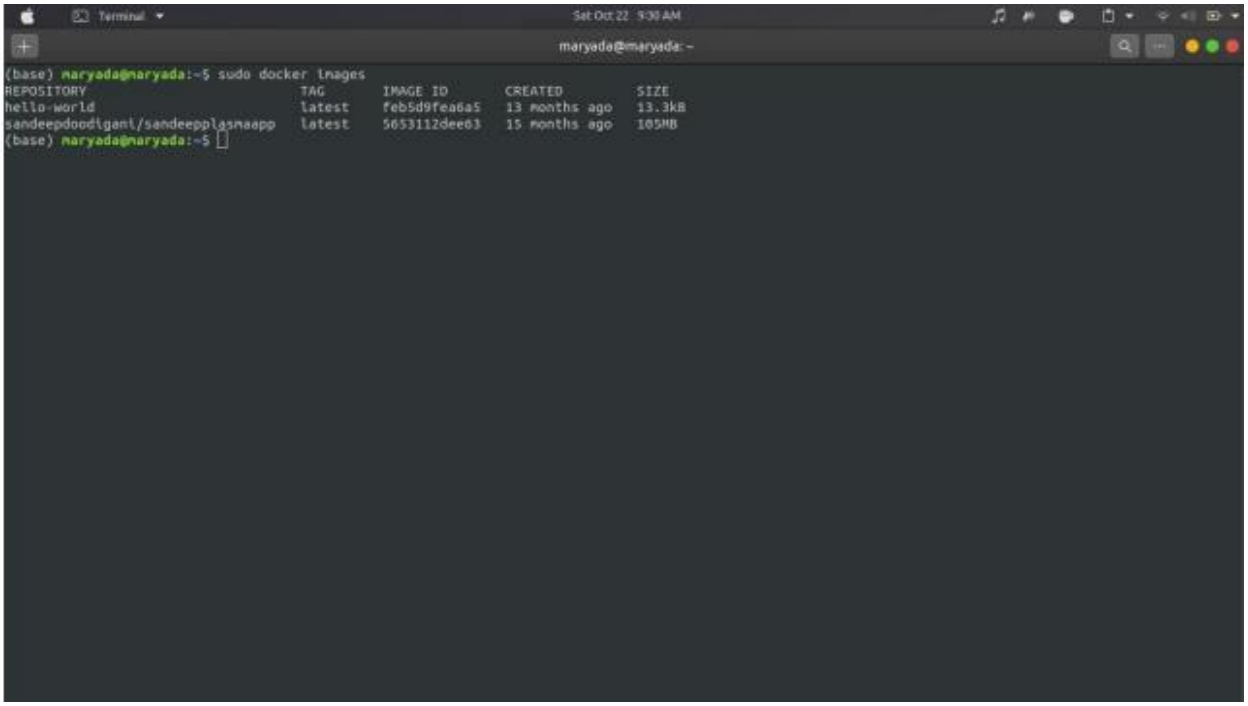
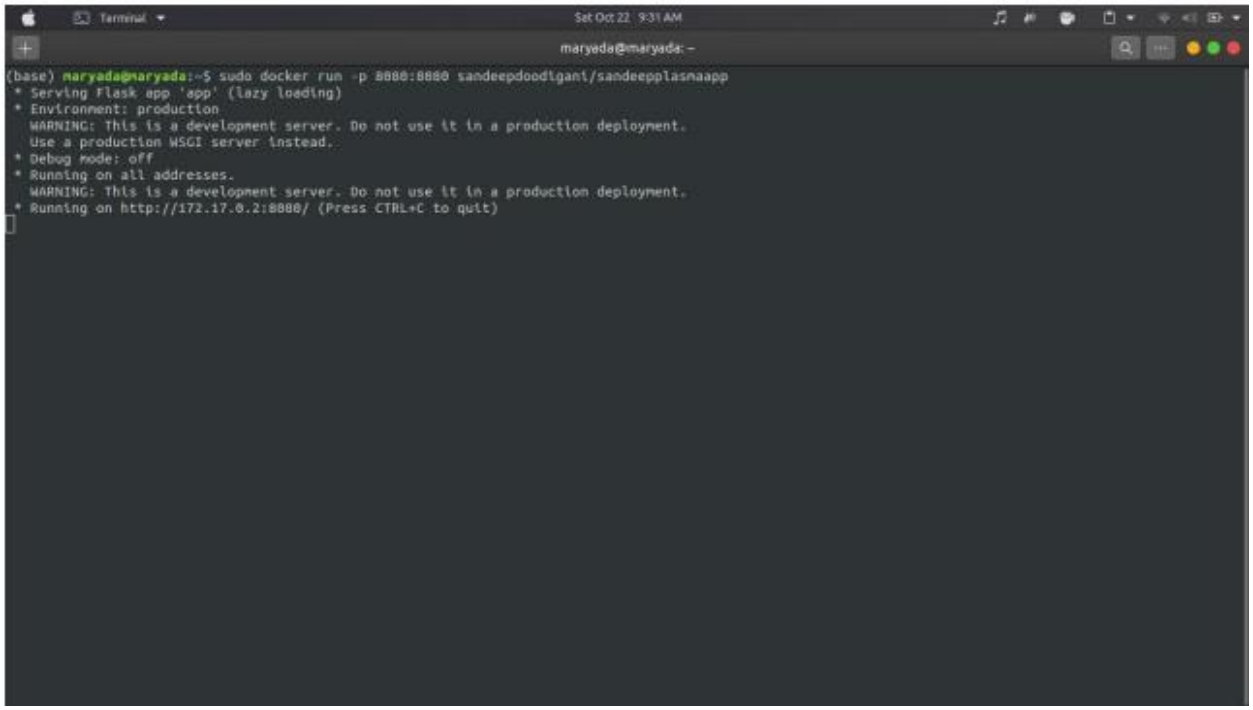
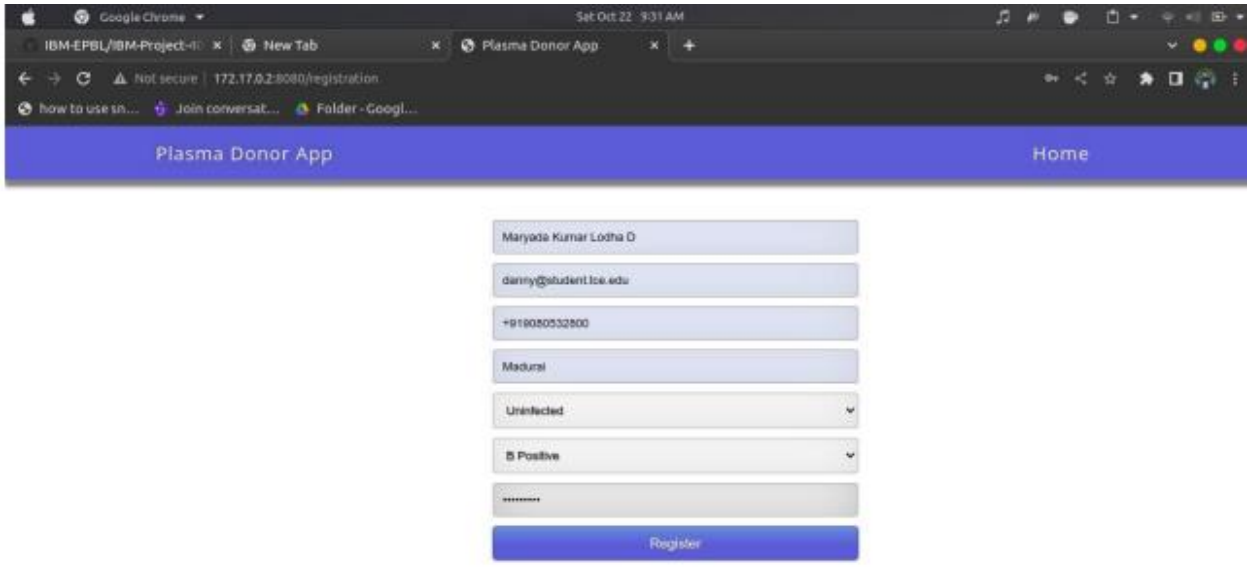
ASSIGNMENT-4

Student Name	Mohana Priya , Divya , Kiruthika , Monesha
Student Roll Number	6113191031056 , 6113191031023 , 6113191031050 , 6113191031058
Maximum Marks	

1.Pull an Image from docker hub and run it in docker playground. Pulled sandeepdoodigani/plasmaapplication and running in docker:







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

FROM python:3.6

WORKDIR /app

ADD . /app

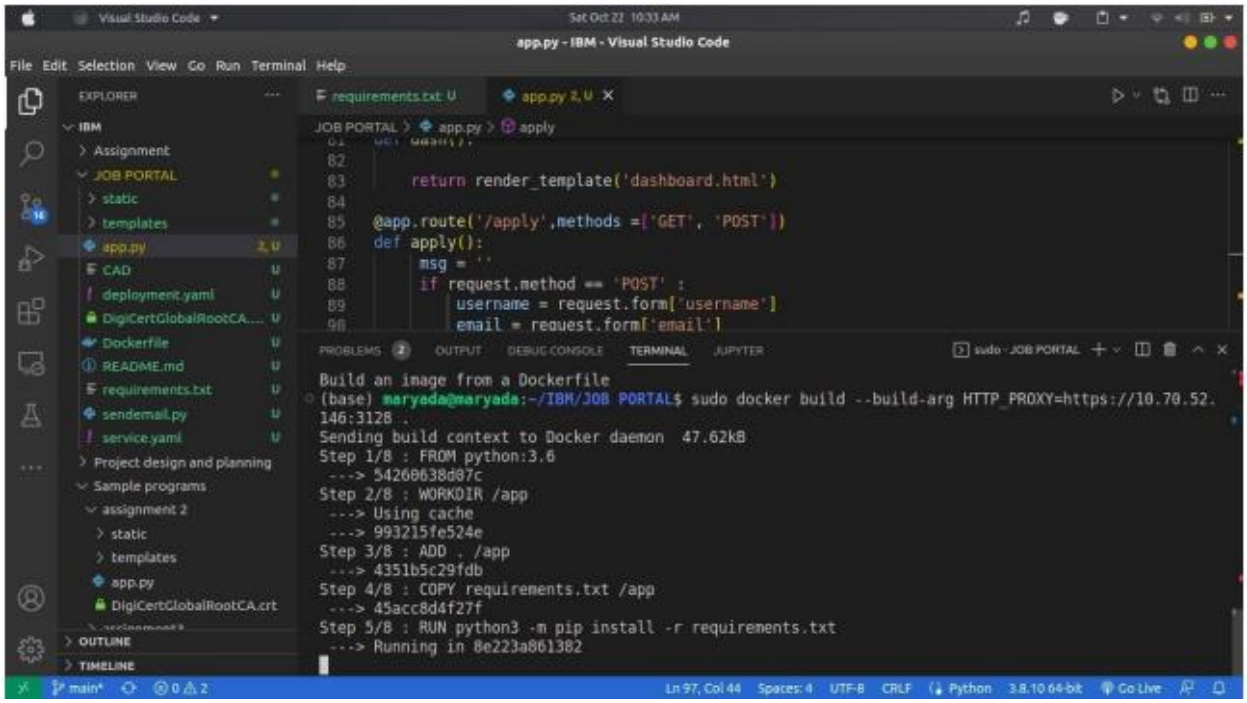
COPY requirements.txt /app

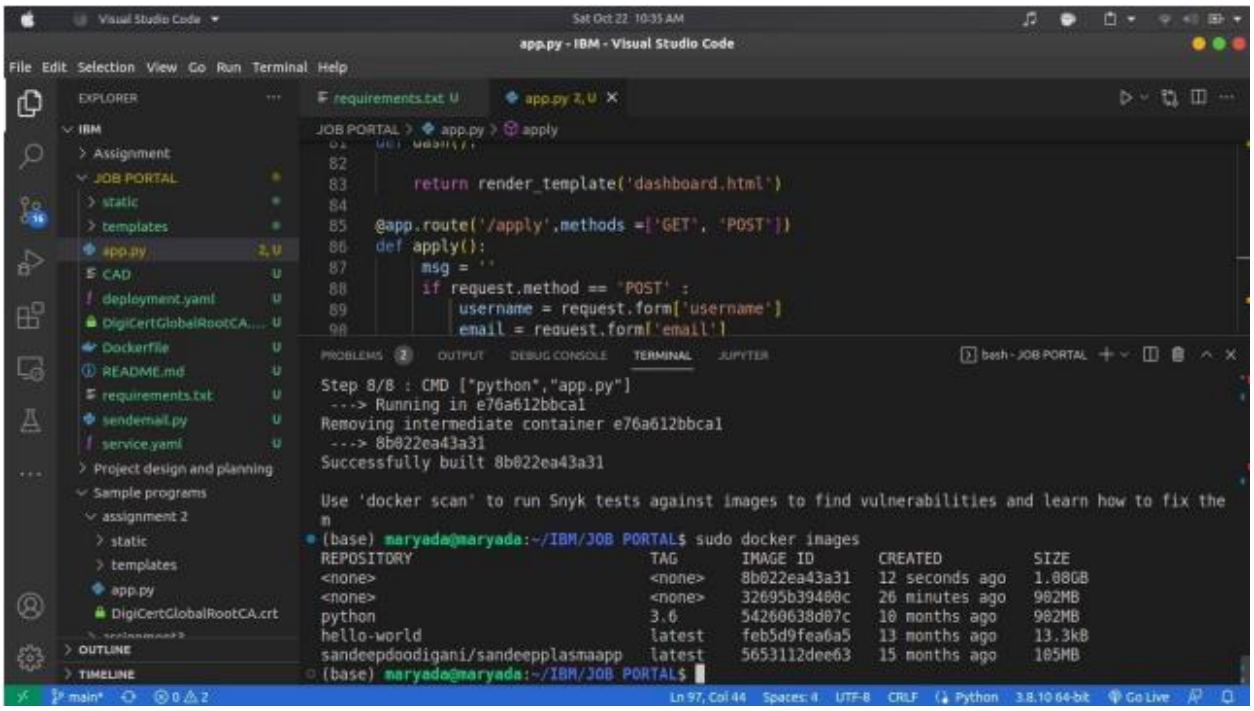
RUN python3 -m pip install -r requirements.txt

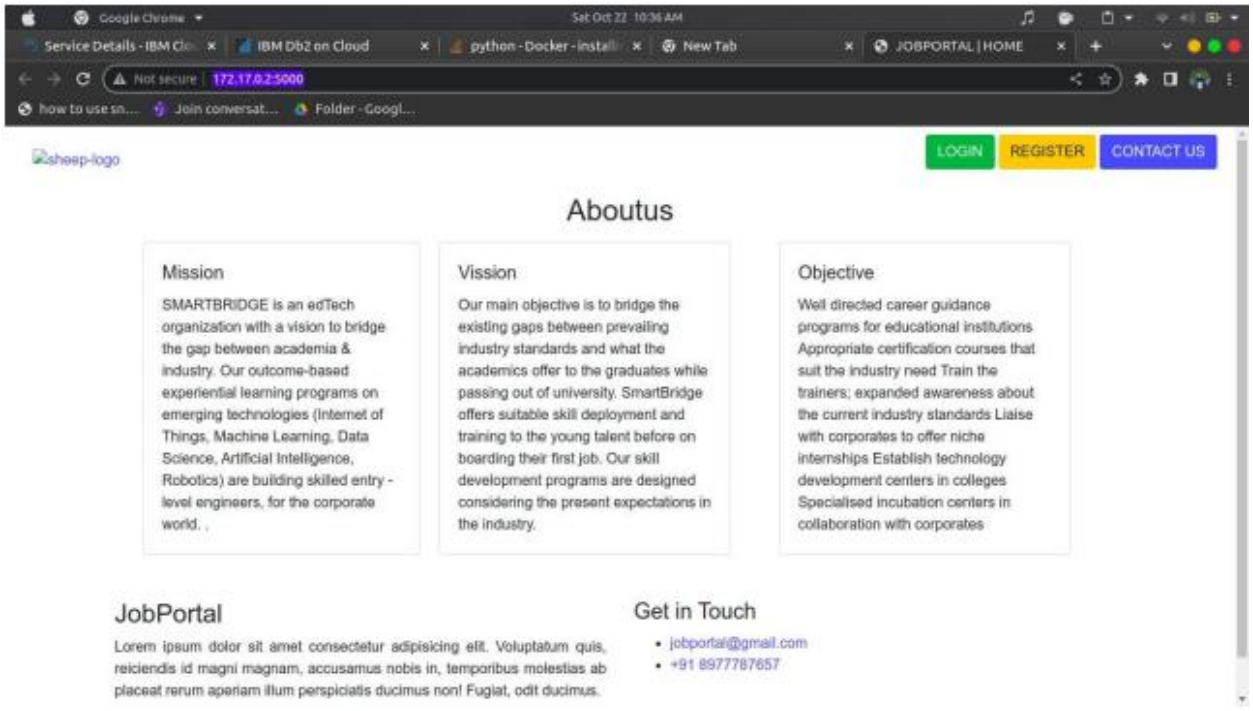
RUN python3 -m pip install ibm_db

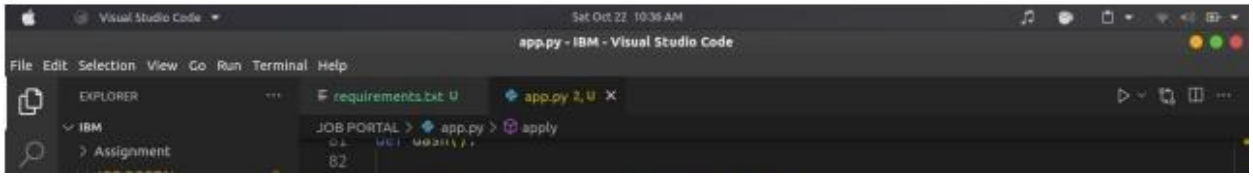
EXPOSE 5000

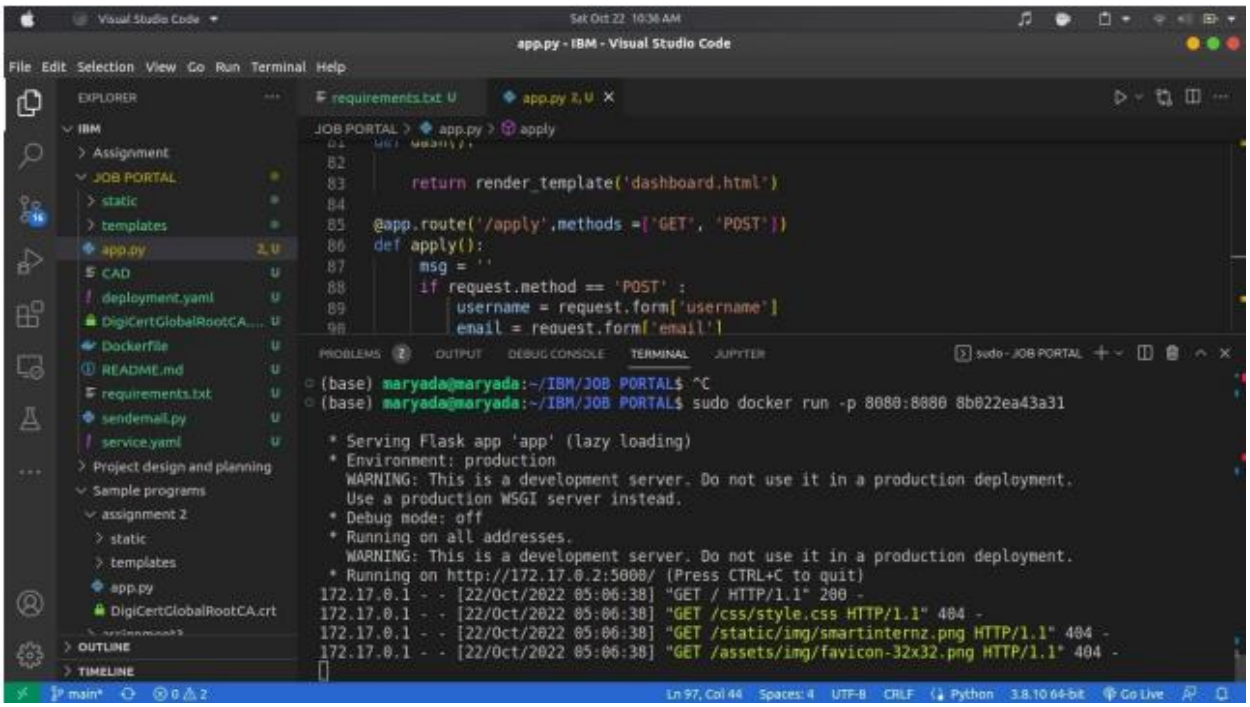
CMD ["python","app.py"]



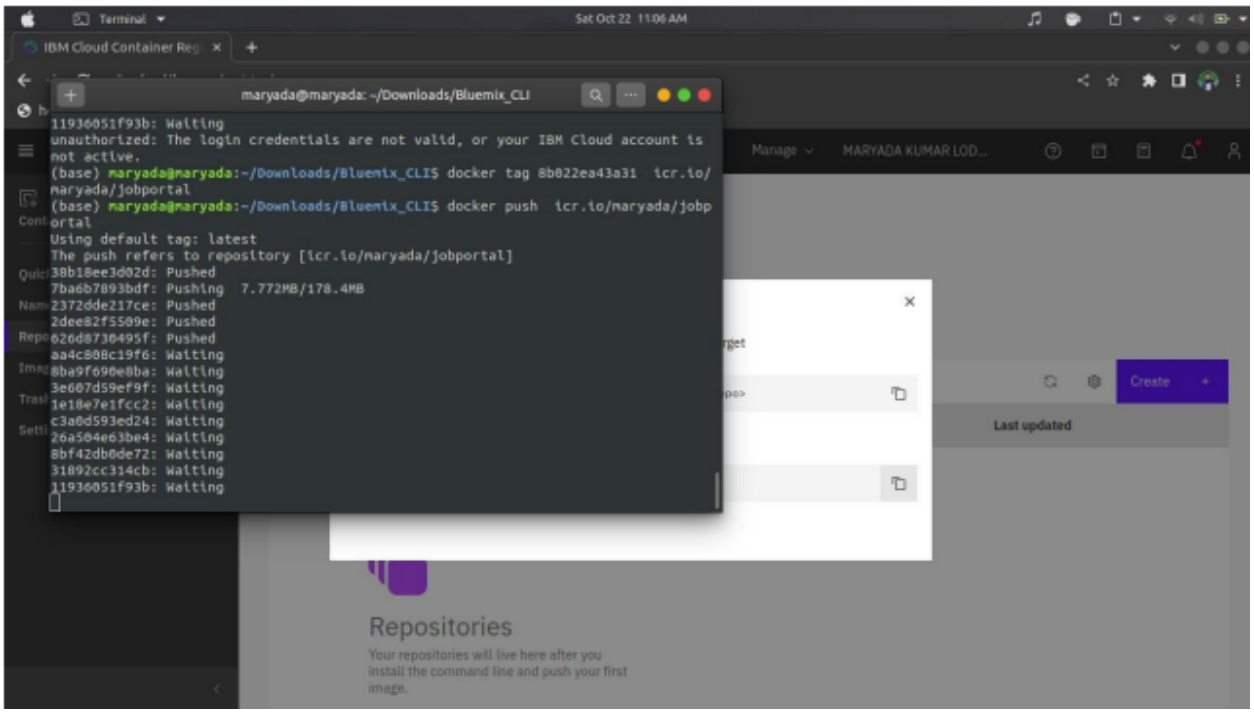

app.py - IBM - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
requirements.txt U
app.py 2, U
JOB PORTAL > app.py > apply
return render_template('dashboard.html')
@app.route('/apply',methods =['GET', 'POST'])
def apply():
msg = ''
if request.method == 'POST' :
username = request.form['username']
email = request.form['email']
PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
bash - JOB PORTAL
Step 8/8 : CMD ["python","app.py"]
---> Running in e76a612bbca1
Removing intermediate container e76a612bbca1
---> 8b022ea43a31
Successfully built 8b022ea43a31
Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix the
m
(base) maryada@maryada:~/IBM/JOB PORTAL$ sudo docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
<none> <none> 8b022ea43a31 12 seconds ago 1.08GB
<none> <none> 32695b39400c 26 minutes ago 902MB
python 3.6 54260638d07c 10 months ago 902MB
hello-world latest feb5d9fea6a5 13 months ago 13.3kB
sandeepdoodigani/sandeepplasmaapp latest 5653112dee63 15 months ago 105MB
(base) maryada@maryada:~/IBM/JOB PORTAL$
Ln 97, Col 44 Spaces: 4 UTF-8 CRLF Python 3.8.10 64-bit Go Live

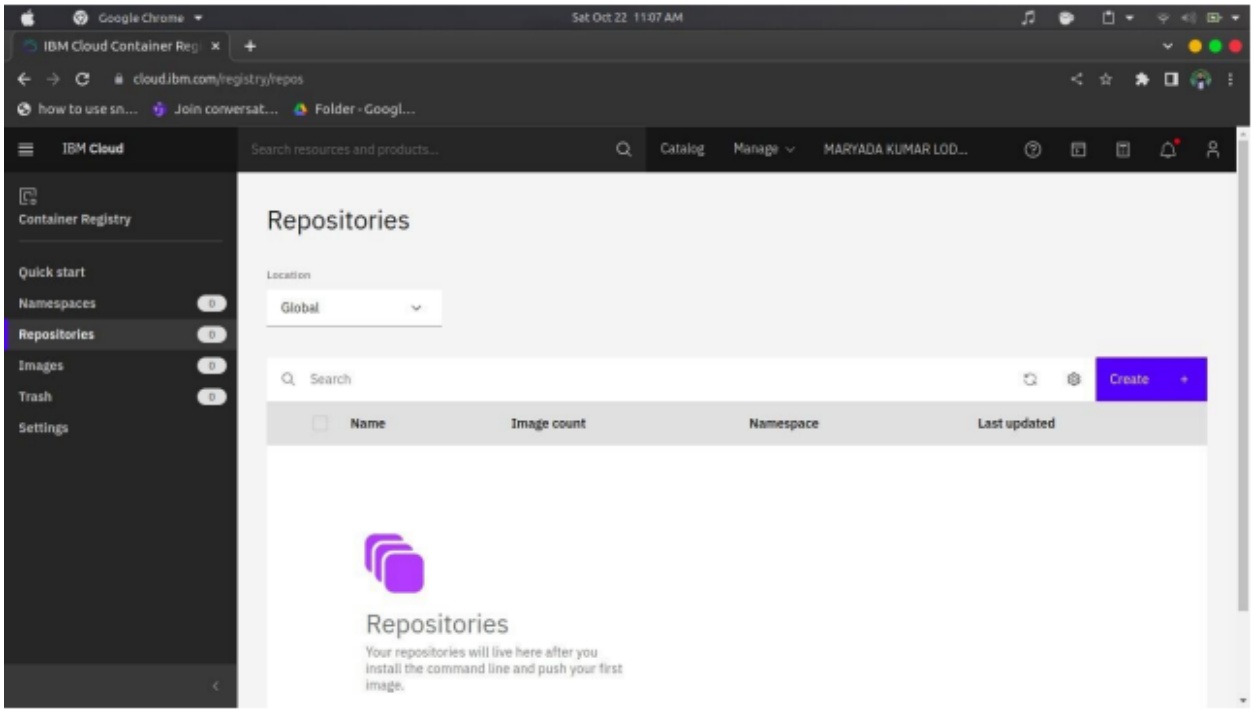

Service Details - IBM Clo
IBM Db2 on Cloud
python - Docker - install
New Tab
JOBPORTAL | HOME
Not secure 172.17.0.2:5000
sheep-logo
LOGIN
REGISTER
CONTACT US
Aboutus
Mission
SMARTBRIDGE is an edTech organization with a vision to bridge the gap between academia & industry. Our outcome-based experiential learning programs on emerging technologies (Internet of Things, Machine Learning, Data Science, Artificial Intelligence, Robotics) are building skilled entry - level engineers, for the corporate world. .
Vission
Our main objective is to bridge the existing gaps between prevailing industry standards and what the academics offer to the graduates while passing out of university. SmartBridge offers suitable skill deployment and training to the young talent before on boarding their first job. Our skill development programs are designed considering the present expectations in the industry.
Objective
Well directed career guidance programs for educational institutions Appropriate certification courses that suit the industry need Train the trainers; expanded awareness about the current industry standards Liaise with corporates to offer niche internships Establish technology development centers in colleges Specialised incubation centers in collaboration with corporates
JobPortal
Lorem ipsum dolor sit amet consectetur adipisicing elit. Voluptatum quis, reiciendis id magni magnam, accusamus nobis in, temporibus molestias ab placeat rerum aperiam illum perspiciatis ducimus non! Fugiat, odit ducimus.
Get in Touch
jobportal@gmail.com
+91 8977787657

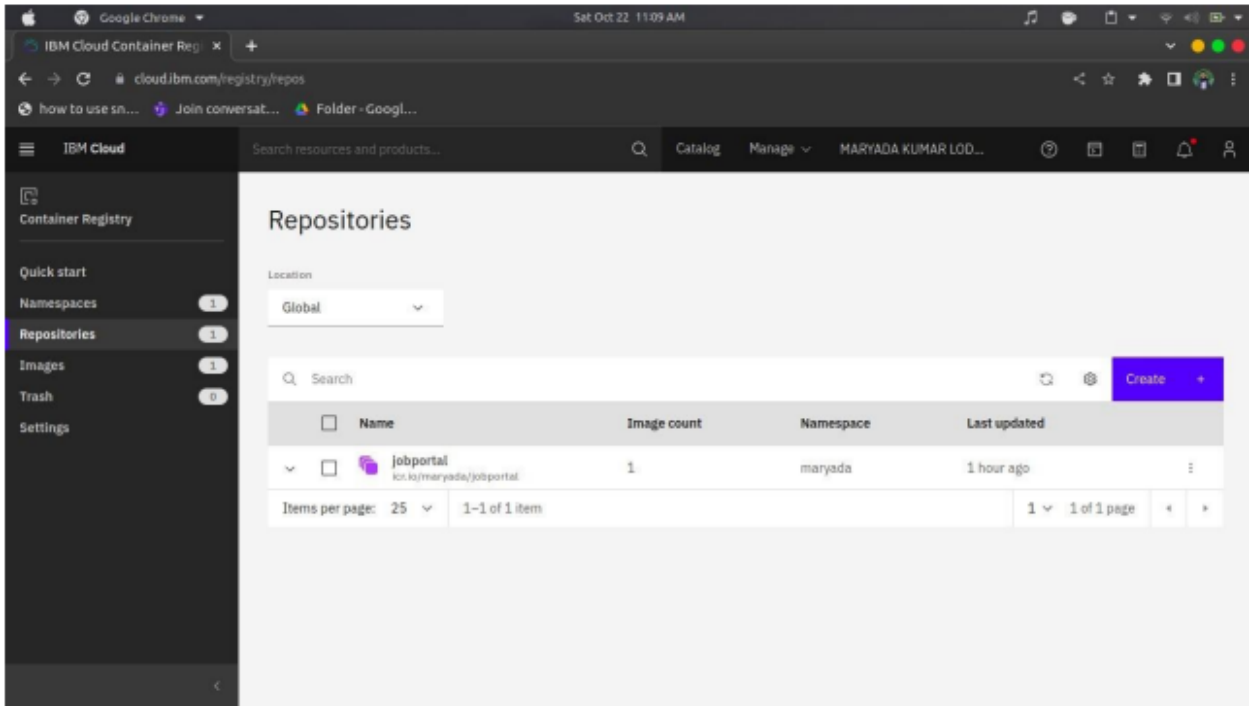

app.py - IBM - Visual Studio Code
File Edit Selection View Go Run Terminal Help
EXPLORER
requirements.txt U
app.py 2, U
JOB PORTAL > app.py > apply



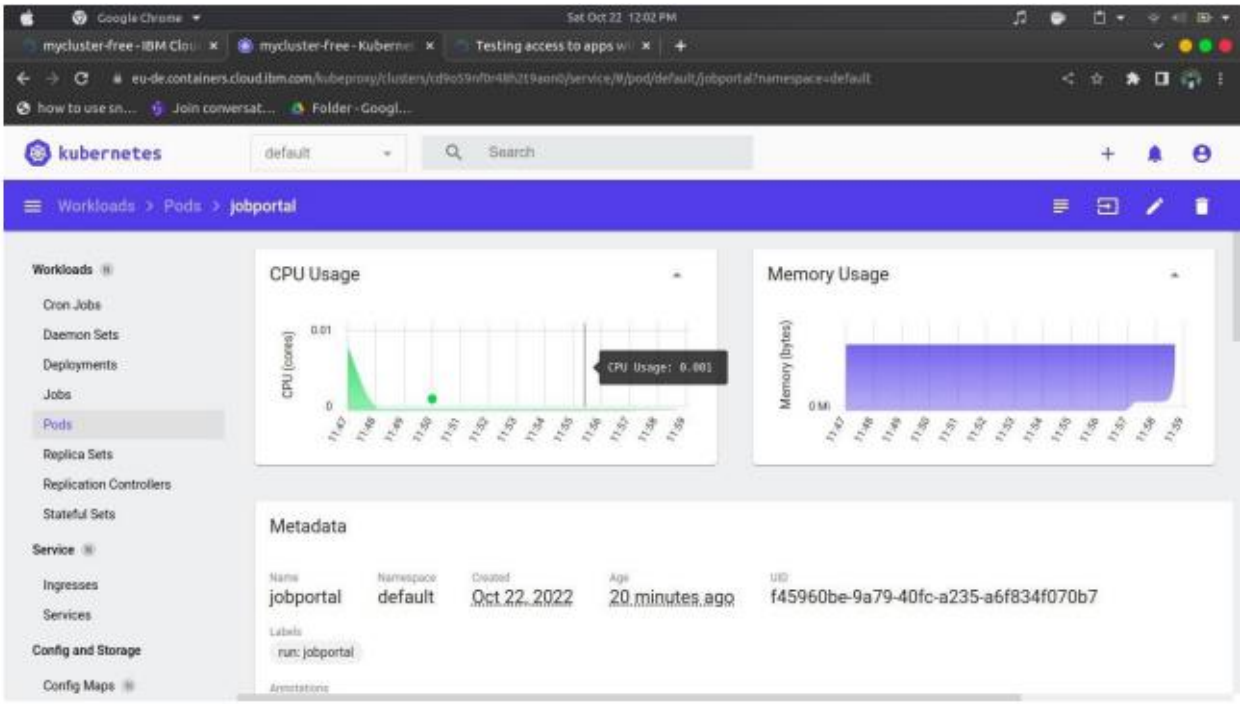
3.Create a IBM container registry and deploy helloworld app or jobportalapp.

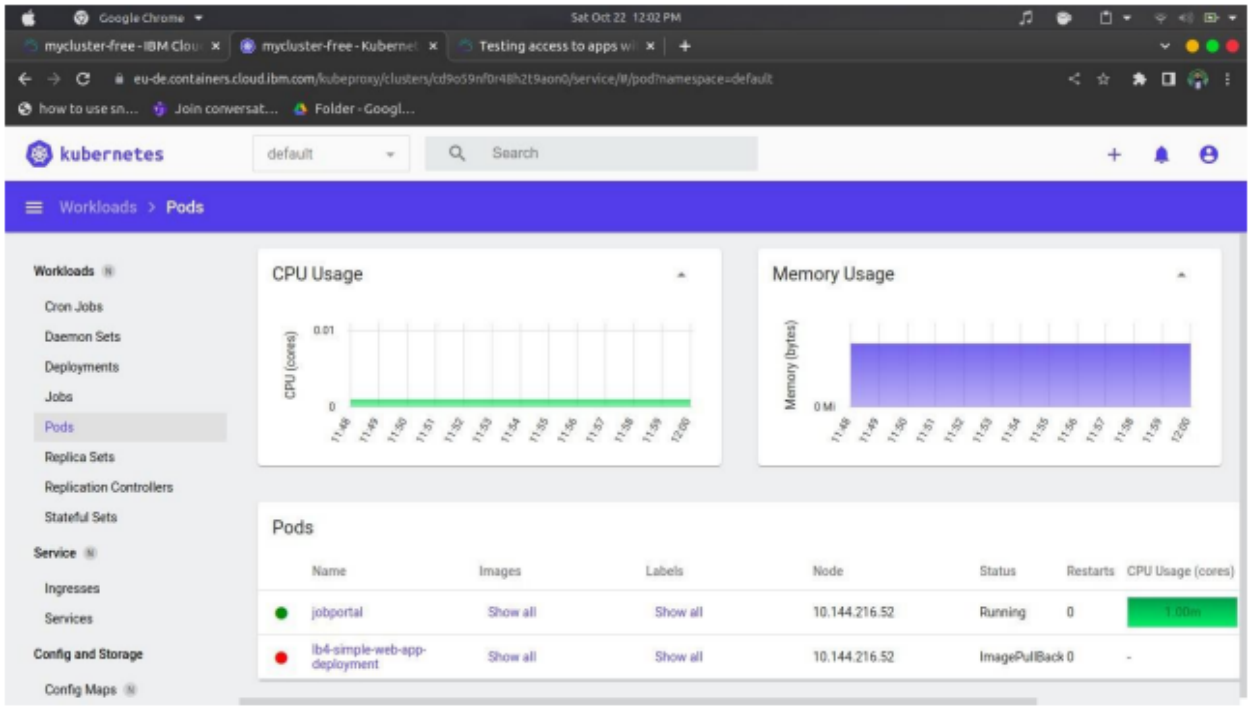






4.Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image andalso expose the same app to run in nodeport.


kubernetes
default
Search
Workloads > Pods > jobportal
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Services
Config and Storage
Config Maps
CPU Usage
CPU (cores)
0.01
0
CPU Usage: 0.001
Memory Usage
Memory (bytes)
0 Mi
Metadata
Name
jobportal
Namespace
default
Created
Oct 22, 2022
Age
20 minutes ago
UID
f45960be-9a79-40fc-a235-a6f834f070b7
Labels
run: jobportal


kubernetes
default
Search
Workloads > Pods
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Services
Config and Storage
Config Maps
CPU Usage
CPU (cores)
0.01
0
Memory Usage
Memory (bytes)
0 Mi
Pods
Name
Images
Labels
Node
Status
Restarts
CPU Usage (cores)
jobportal
Show all
Show all
10.144.216.52
Running
0
lb4-simple-web-app-deployment
Show all
Show all
10.144.216.52
ImagePullBack
0