Assignment-4

Team ID : PNT2022TMID40878
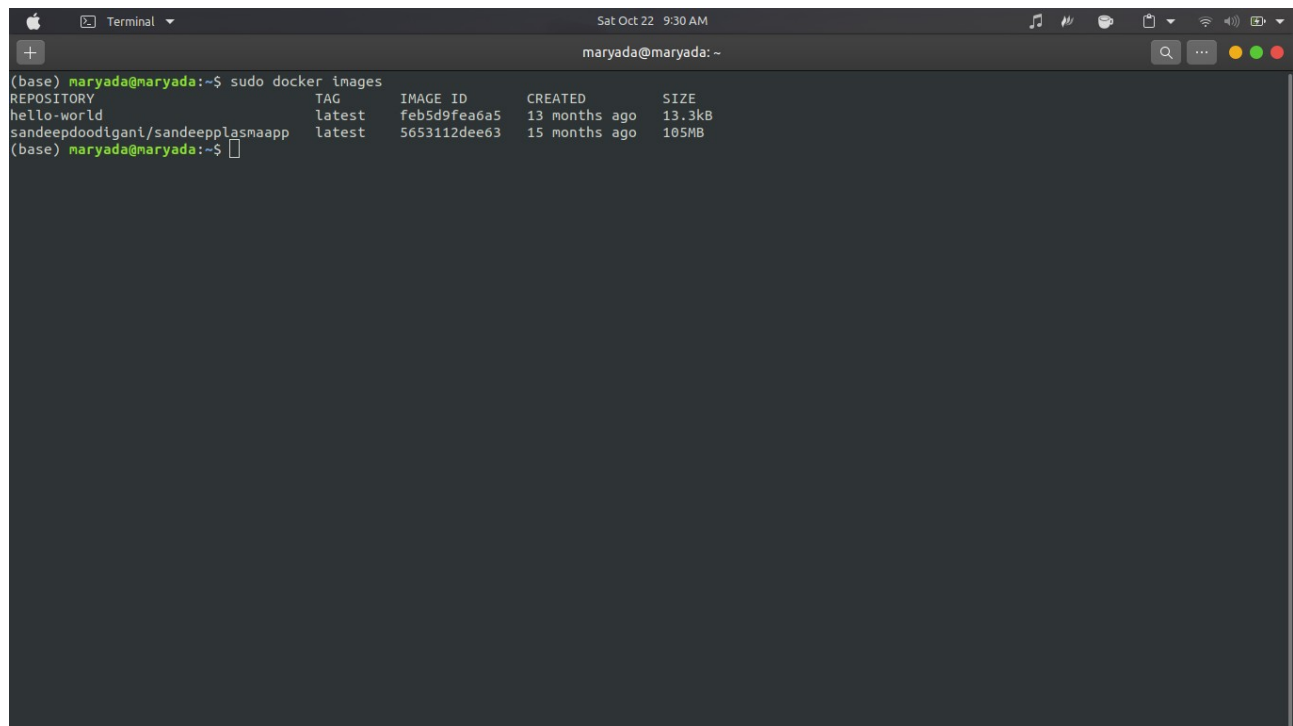
Team Leader : Chandru M
Team member 1 : Vignesh kanna S
Team member 2 : Aravindh S
Team member 3 : Elangkavi M
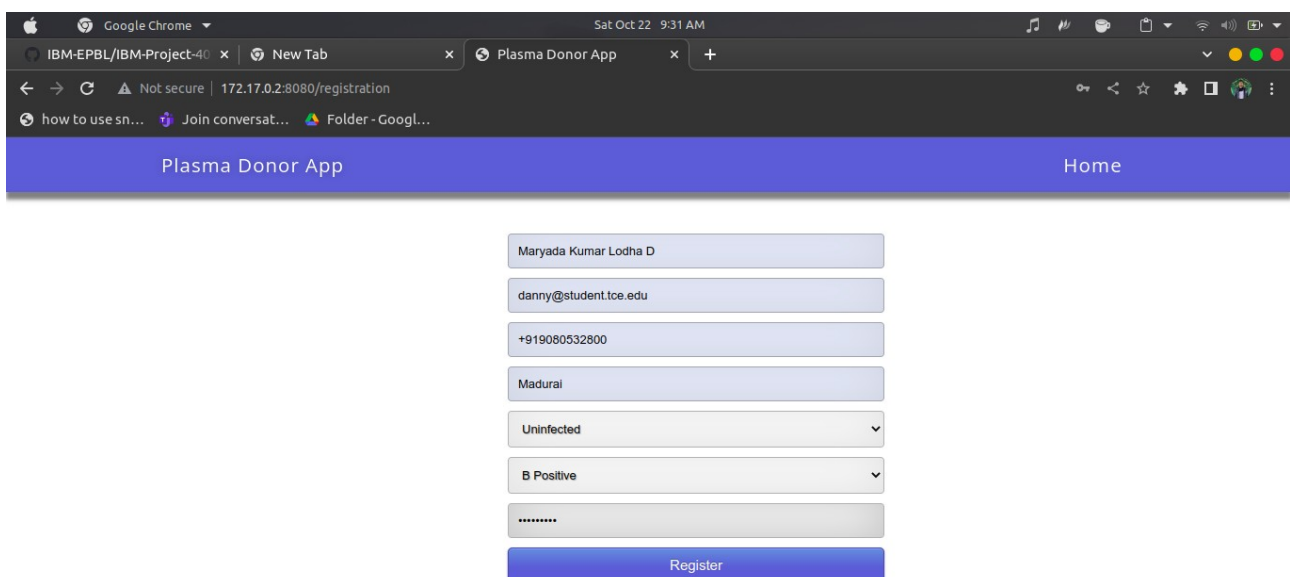
1. Pull an Image from docker hub and run it in docker playground.

Pulled sandeepdoodigani/plasmaapplication and running in docker:

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

Dockerfile:
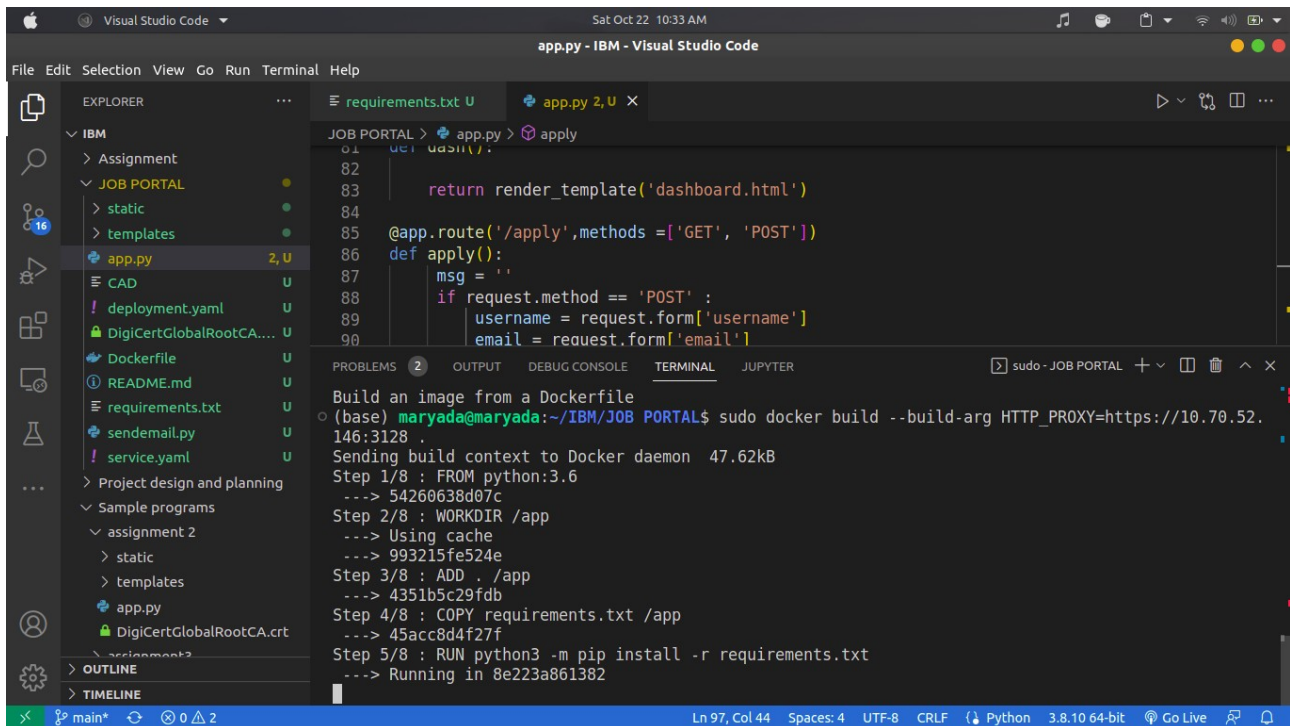FROM python:3.6
WORKDIR /app
ADD . /app
COPY requirements.txt /app
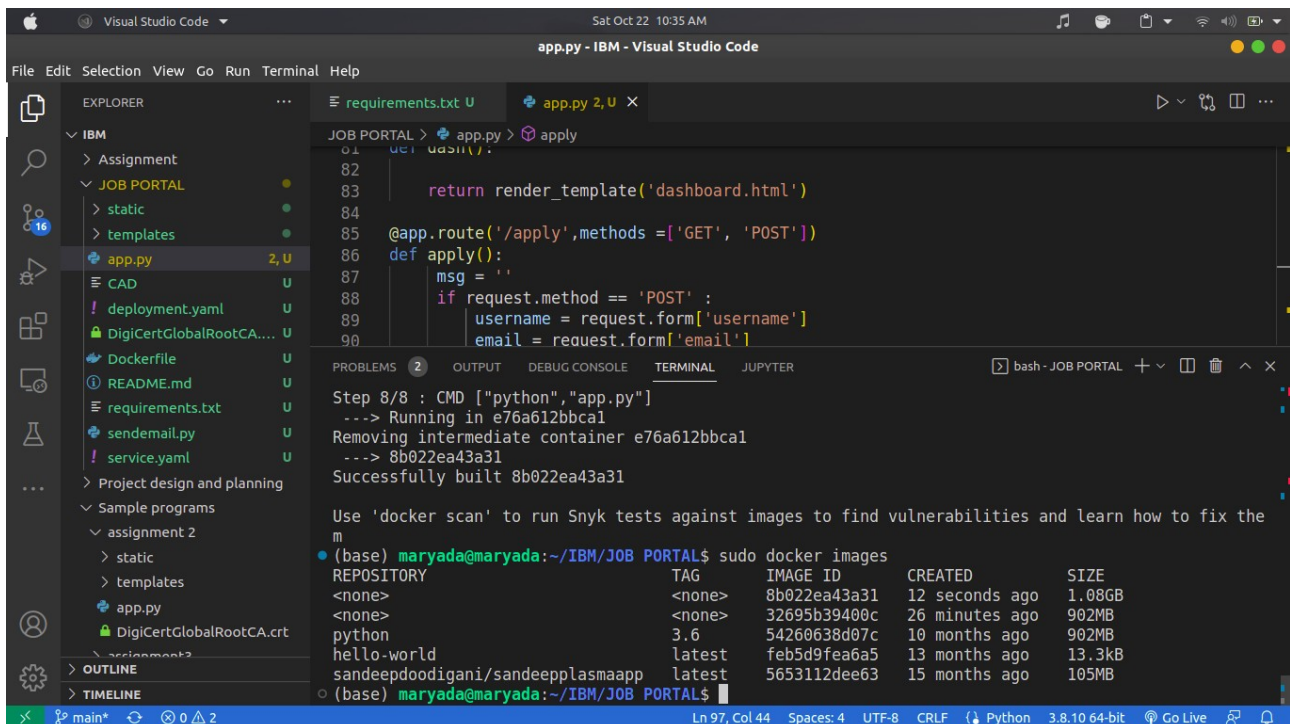RUN python3 -m pip install -r requirements.txt
RUN python3 -m pip install ibm_db
EXPOSE 5000

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

Google Chrome

Service Details - IBM Clou... | IBM Db2 on Cloud | python - Docker - installi... | New Tab | JOBPORTAL | HOME

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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

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Get in Touch

- jobportal@gmail.com
- +91 8977787657

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app.py - IBM - Visual Studio Code

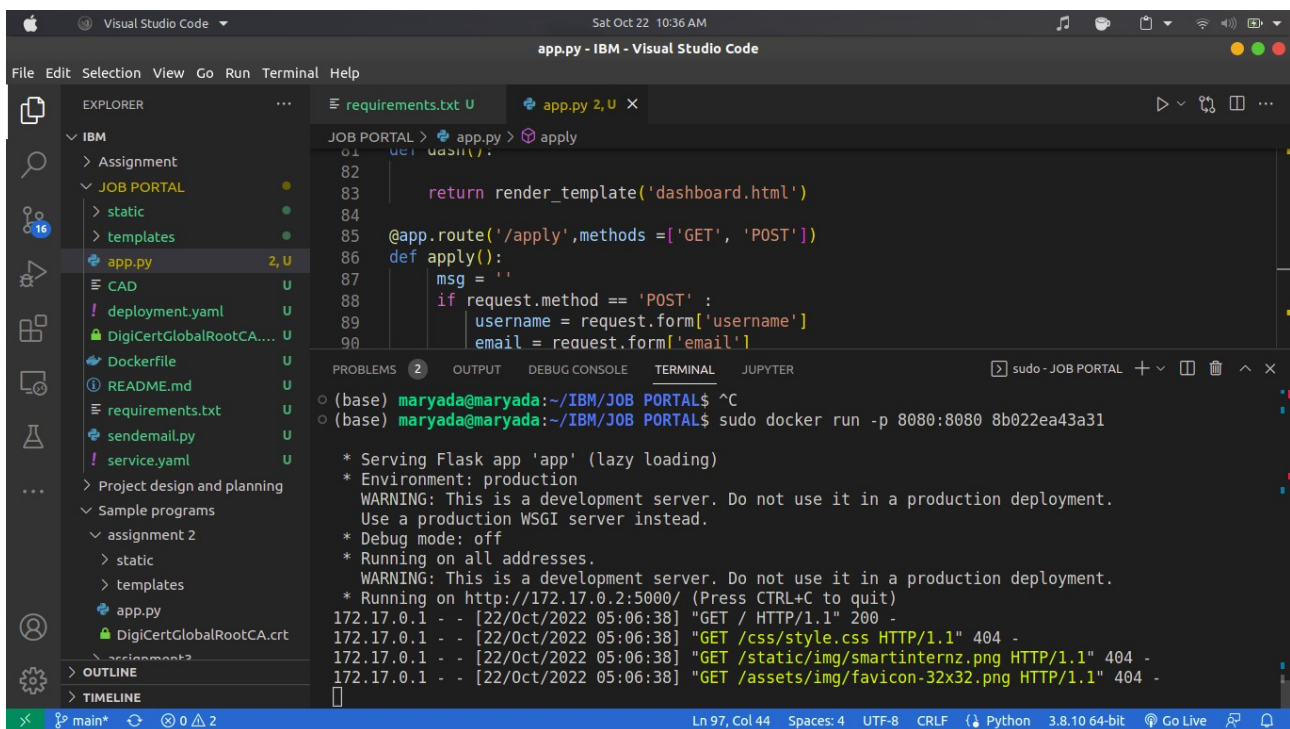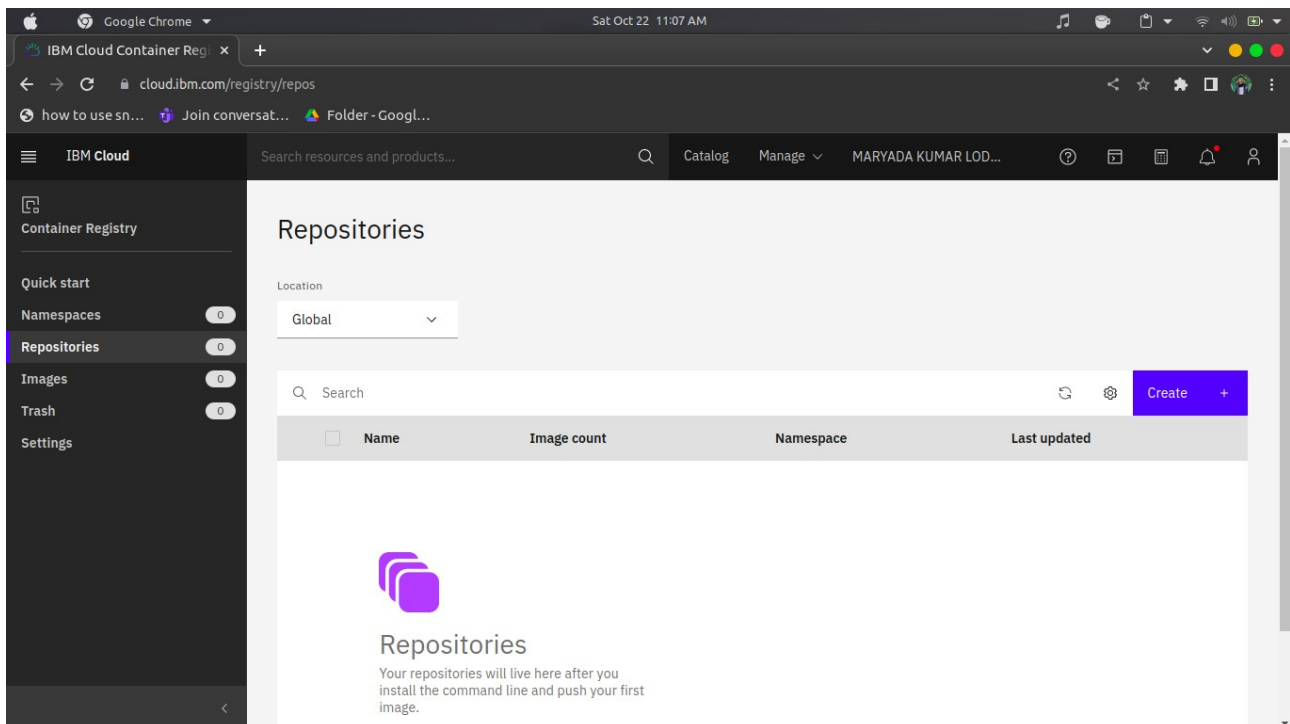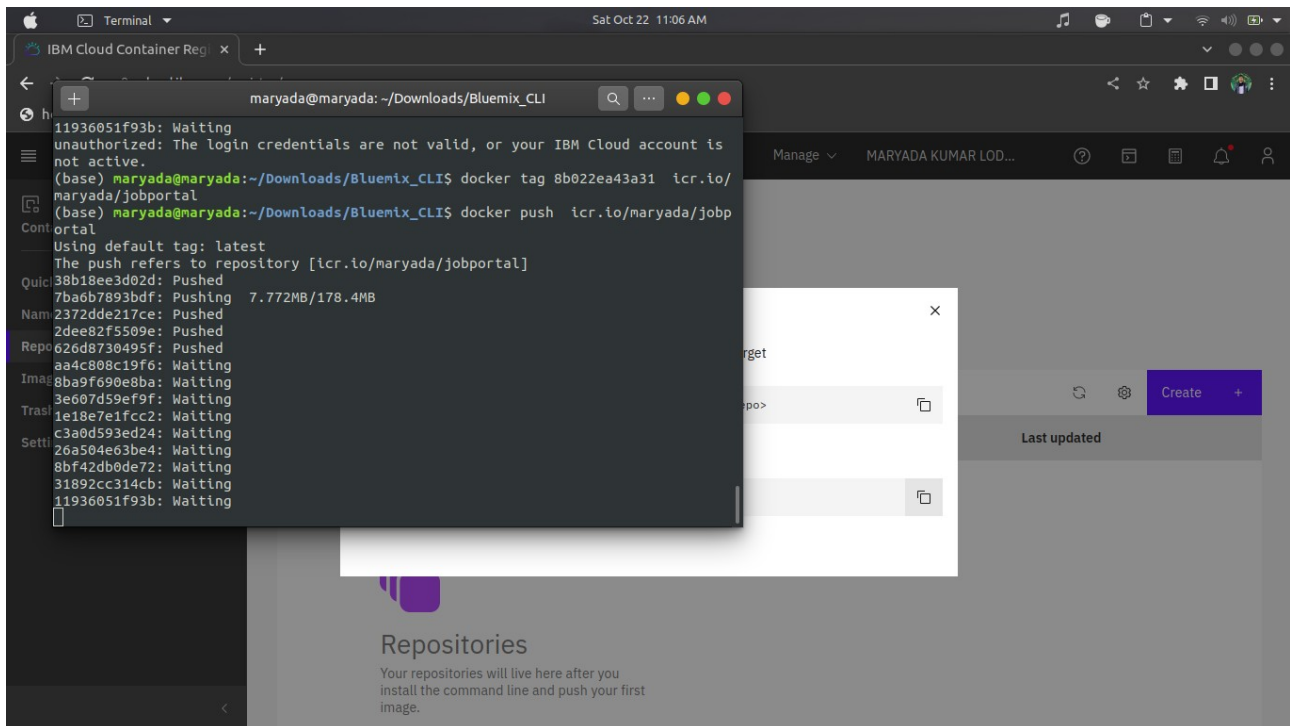File Edit Selection View Go Run Terminal Help

EXPLORER

requirements.txt U   app.py 2, U ×

JOB PORTAL > app.py > apply

```
81    def dash():
82
83        return render_template('dashboard.html')
84
85    @app.route('/apply',methods =['GET', 'POST'])
86    def apply():
87        msg = ''
88        if request.method == 'POST' :
89            username = request.form['username']
90            email = request.form['email']
```

> IBM
  > Assignment
  > JOB PORTAL
    > static
    > templates
    app.py   2, U
    CAD   U
    ! deployment.yaml   U
    DigiCertGlobalRootCA....   U
    Dockerfile   U
    README.md   U
    requirements.txt   U
    sendemail.py   U
    ! service.yaml   U
  > Project design and planning
  > Sample programs
    > assignment 2
      > static
      > templates
      app.py
      DigiCertGlobalRootCA.crt
      assignment3

> OUTLINE
> TIMELINE

PROBLEMS 2   OUTPUT   DEBUG CONSOLE   TERMINAL   JUPYTER   sudo - JOB PORTAL

```
(base) maryada@maryada:~/IBM/JOB PORTAL$ ^C
(base) maryada@maryada:~/IBM/JOB PORTAL$ sudo docker run -p 8080:8080 8b022ea43a31

 * Serving Flask app 'app' (lazy loading)
 * Environment: production
   WARNING: This is a development server. Do not use it in a production deployment.
   Use a production WSGI server instead.
 * Debug mode: off
 * Running on all addresses.
   WARNING: This is a development server. Do not use it in a production deployment.
 * Running on http://172.17.0.2:5000/ (Press CTRL+C to quit)
172.17.0.1 - - [22/Oct/2022 05:06:38] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [22/Oct/2022 05:06:38] "GET /css/style.css HTTP/1.1" 404 -
172.17.0.1 - - [22/Oct/2022 05:06:38] "GET /static/img/smartinternz.png HTTP/1.1" 404 -
172.17.0.1 - - [22/Oct/2022 05:06:38] "GET /assets/img/favicon-32x32.png HTTP/1.1" 404 -
```

main*   0   2   Ln 97, Col 44   Spaces: 4   UTF-8   CRLF   Python   3.8.10 64-bit   Go Live

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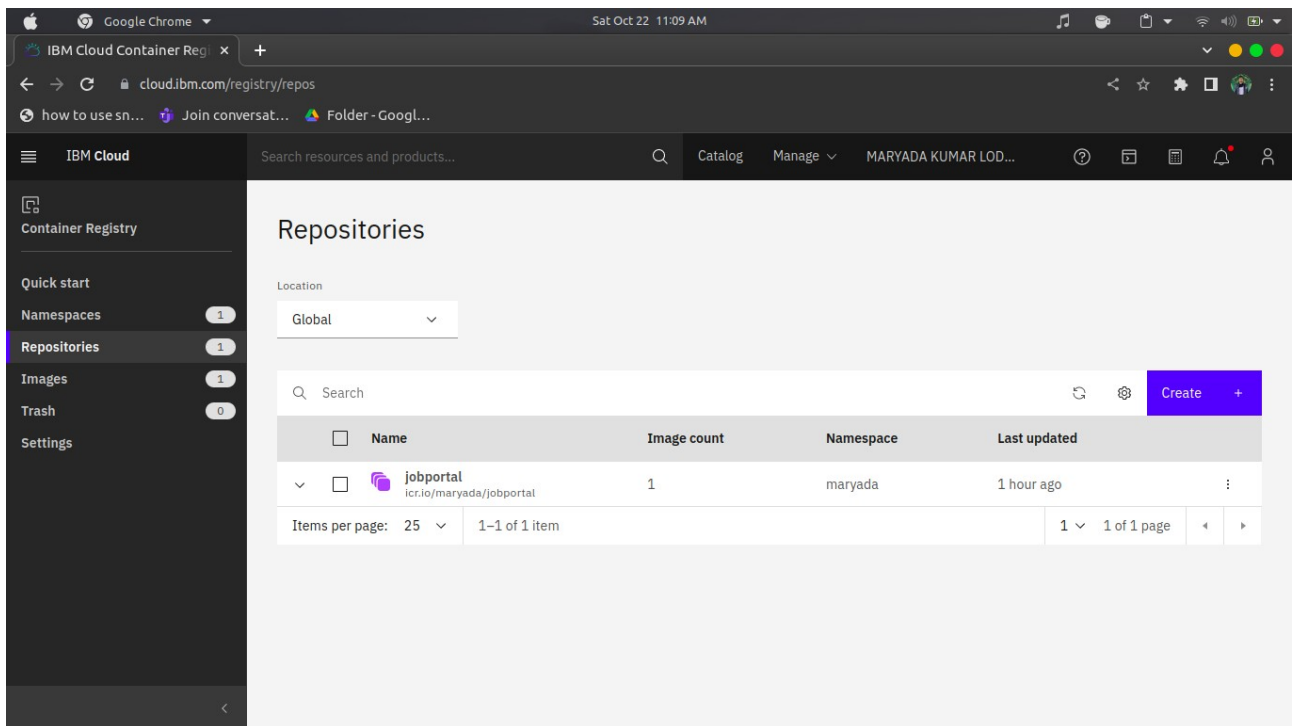
4. Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.

Google Chrome

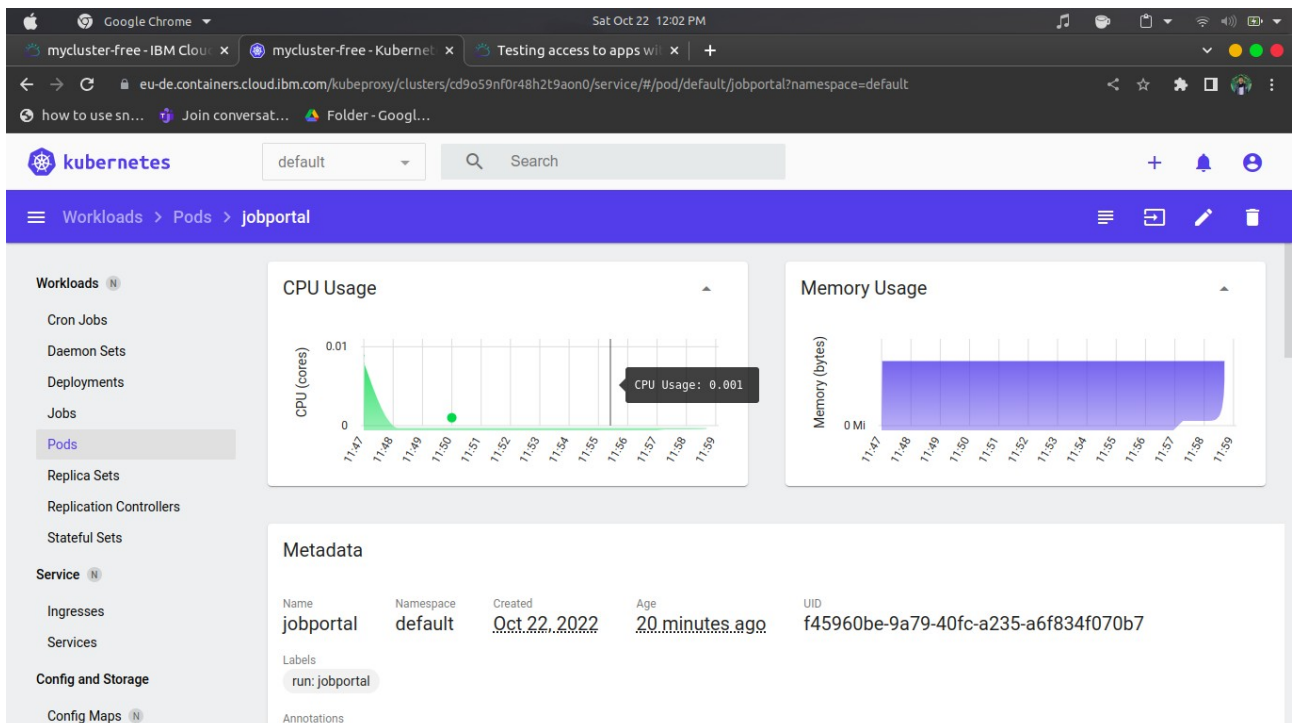mycluster-free - IBM Clou ×   mycluster-free - Kubernet ×   Testing access to apps wi ×   +

eu-de.containers.cloud.ibm.com/kubeproxy/clusters/cd9o59nf0r48h2t9aon0/service/#/pod?namespace=default

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kubernetes

default

Search

Workloads > Pods

Workloads N
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- Daemon Sets
- Deployments
- Jobs
- Pods
- Replica Sets
- Replication Controllers
- Stateful Sets

Service N
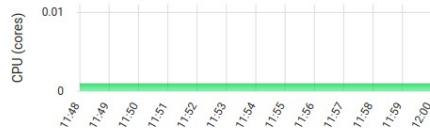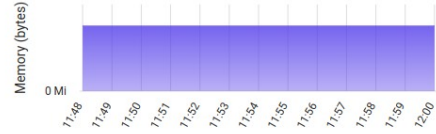- Ingresses
- Services

Config and Storage
- Config Maps N

CPU Usage

CPU (cores)

0.01

0

11:48 11:49 11:50 11:51 11:52 11:53 11:54 11:55 11:56 11:57 11:58 11:59 12:00

Memory Usage

Memory (bytes)

0 Mi

11:48 11:49 11:50 11:51 11:52 11:53 11:54 11:55 11:56 11:57 11:58 11:59 12:00

Pods

	Name	Images	Labels	Node	Status	Restarts	CPU Usage (cores)
●	jobportal	Show all	Show all	10.144.216.52	Running	0	1.00m
●	lb4-simple-web-app-deployment	Show all	Show all	10.144.216.52	ImagePullBack	0	-