

Assignment-4

PLASMA DONOR APPLICATION

TEAM ID:PNT2022TMID16634

Questions:

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 docker file for the jobportal application and deploy it in Docker desktop application.
4. Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

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

```
[node1] (local) root@192.168.0.8 ~
$ docker run -dp 80:80 docker/getting-started:pwd
Unable to find image 'docker/getting-started:pwd' locally
pwd: Pulling from docker/getting-started
89d9c30c1d48: Pull complete
24f1c4f0b2f4: Pull complete
16542569a10d: Pull complete
08396939143d: Pull complete
Digest: sha256:9156d395e7e41498d5348e95513d61fc7929db720393448306c5d7263d7f2696
Status: Downloaded newer image for docker/getting-started:pwd
afe9c7b8d51769ca33d7c846644aad1ceefa4372fde68b8c18f4b27503f0a756
[node1] (local) root@192.168.0.8 ~
$ sudo docker images
REPOSITORY          TAG          IMAGE ID          CREATED          SIZE
world                latest       45328bdf05eb     13 months ago   25.8MB
[node1] (local) root@192.168.0.8 ~
```

kesavaraj
gomathikeasava@gmail.com
7091564824
salem
Uninfected
A Positive
.....
Register

thanks for register.

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

Dockerfile:

FROM

python:3.6WORK

DIR /appADD.

/app

COPYrequirements.txt/app

RUN python3 -m pip install -r

requirements.txtRUNpython3

-m pip install libm-db

EXPOSE5000

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

File Edit Selection View Go Run Terminal Help

EXPLORER

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

requirements.txt U app.py 2, U X

JOB PORTAL > app.py > apply

```
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']
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Step 1/8 : FROM python:3.6
--> 54260638d07c
Step 2/8 : WORKDIR /app
--> Using cache
--> 993215fe524e
Step 3/8 : ADD . /app
--> 4351b5c29fdb
Step 4/8 : COPY requirements.txt /app
--> 45acc8d4f27f
Step 5/8 : RUN python3 -m pip install -r requirements.txt
--> Running in 8e223a861382

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

File Edit Selection View Go Run Terminal Help

EXPLORER

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requirements.txt U app.py 2, U X

JOB PORTAL > app.py > apply

```
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83     return render_template('dashboard.html')
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90         email = request.form['email']
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Step 8/8 : CMD ["python", "app.py"]
--> Running in e76a612bbca1
Removing intermediate container e76a612bbca1
--> 8b022ea43a31
Successfully built 8b022ea43a31

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

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 adipiscing elit. Voluptatum quis, reicendis 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

The screenshot shows a code editor with the following files in the Explorer:

- IBM
 - Assignment
 - JOB PORTAL
 - static
 - templates
 - app.py (selected)
 - CAD
 - deployment.yaml
 - DigiCertGlobalRootCA...
 - Dockerfile
 - README.md
 - requirements.txt
 - sendemail.py
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 - Project design and planning
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 - assignment 2
 - static
 - templates
 - app.py
 - DigiCertGlobalRootCA.crt
 - requirements2
 - OUTLINE
 - TIMELINE

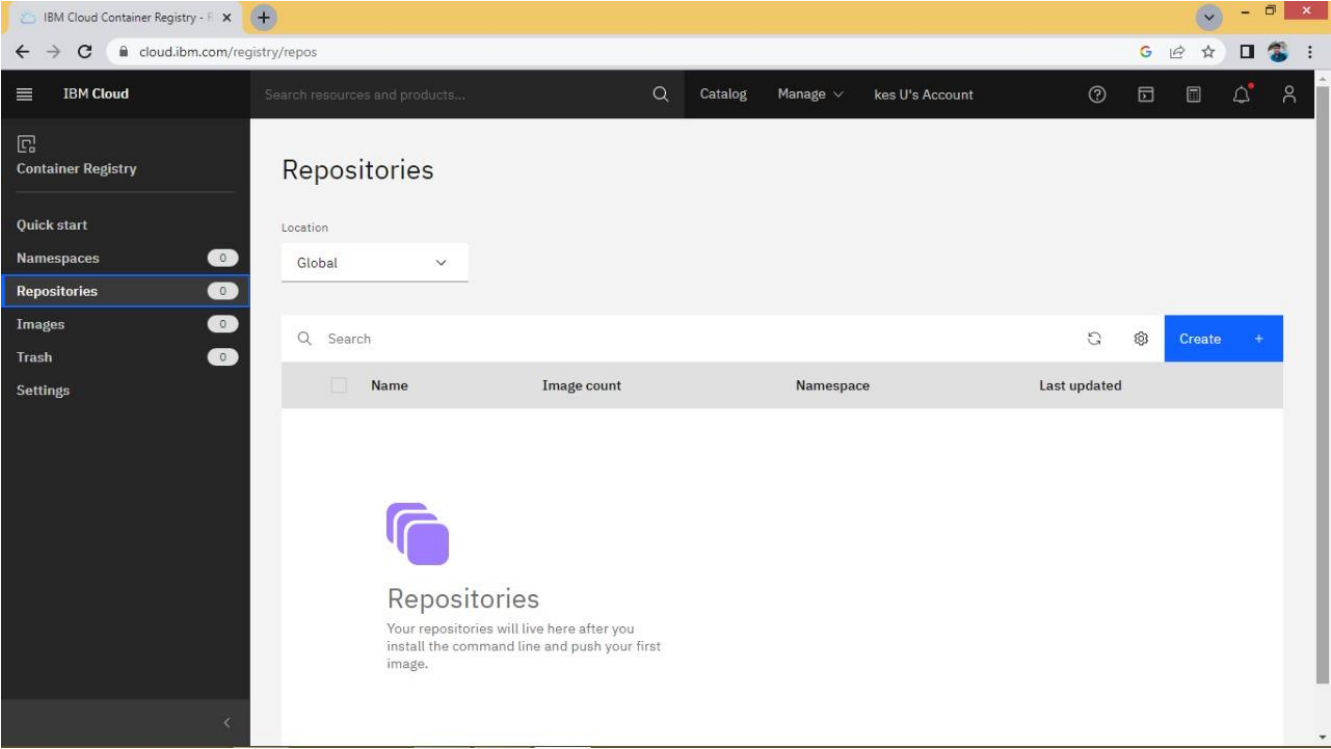
The main editor shows the code for `app.py`:

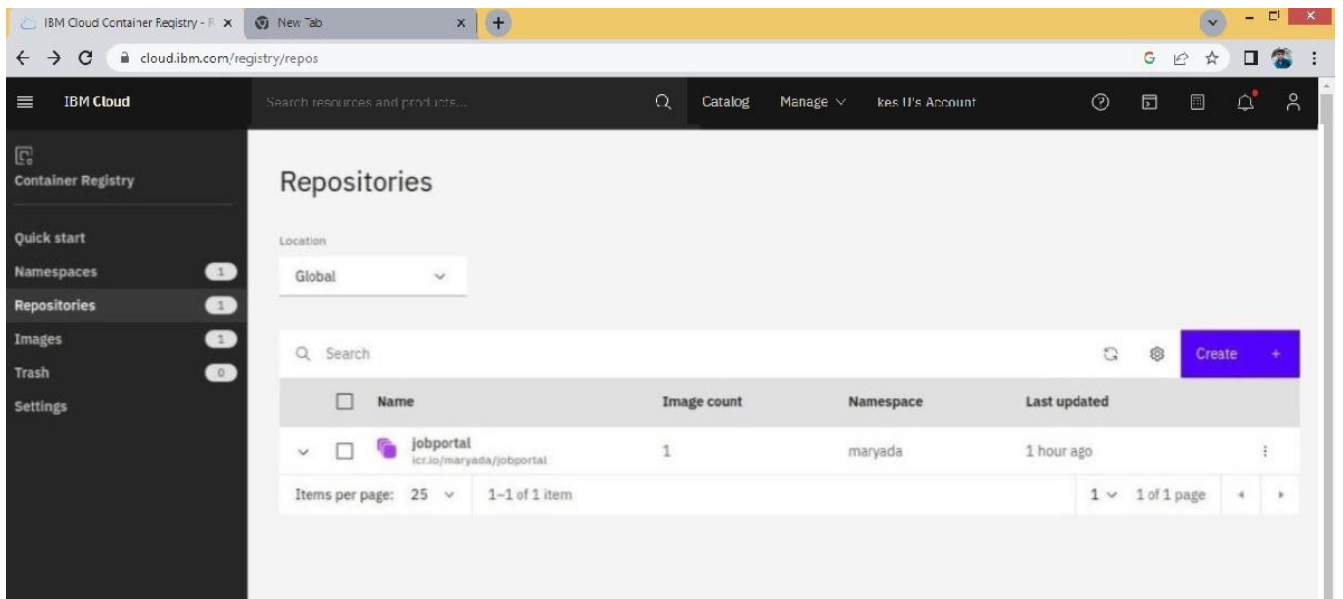
```
01 def dash():
02     return render_template('dashboard.html')
03
04
05 @app.route('/apply', methods=['GET', 'POST'])
06 def apply():
07     msg = ''
08     if request.method == 'POST':
09         username = request.form['username']
10         email = request.form['email']
```

The terminal output shows the following commands and results:

```
(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 -
```

3.Create a IBM container registry and deploy hello world app or job portal app.





4. Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

