

Assignment -4

Date	26 October 2022
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Maximum Mark	2 Marks

Question-1:

- 1 .Pull an Image from docker hub and run it in docker playground.
2. Create a docker file for the job portal application and deploy it in Docker desktop application.
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.

Solution:

HTML

```
<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>FlaskBlog</title>

</head>

<body style="background-color:green;">

<h1>Welcome to Hello page</h1>

<h1>This is a demo page for Docker & Kubernetes</h1>

</body>

</html>
```

Dockerfile

FROM python:3.10.4

WORKDIR /app

COPY requirements.txt ./

RUN pip install -r requirements.txt

COPY . .

EXPOSE 5000

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

Python

```
from flask import Flask, render_template, request, url_for, flash, redirect
```

```
app = Flask(__name__)
```

```
app.config['SECRET_KEY'] = 'df0331cefc6c2b9a5d0208a726a5d1c0fd37324feba25506'
```

```
@app.route('/')
```

```
def index():
```

```
    return render_template('index.html')
```

```
if __name__ == '__main__':
```

```
    app.run(host='0.0.0.0', port=5000, debug=True)
```