Assignment -4

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| Date | 26 October 2022 |
| Name | Mugeshkanna.MR |
| Roll Number | CS19024 |
| 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)