

Assignment -4

Kubernetes
/Docker

Assignment Date	19 November 2022
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Maximum Marks	2 Marks

Question:

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 IBM container registry and deploy helloworld app or jobportal app.
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.

Solution:

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

```
app = Flask(__name__) app.config['SECRET_KEY'] =  
'df0331cefc6c2b9a5d0208a726a5d1c0fd37324feba25506'
```

```
@app.route('/create/', methods=('GET', 'POST'))def create():  
    if request.method == 'POST':  
        title = request.form['title'] content = request.form['content']  
  
        if not title:  
            flash('Title is required!')elif not content:  
            flash('Content is required!')else:  
                messages.append({'title': title, 'content': content})name = "sneha"  
                return redirect(url_for('index', messages=name ))return
```

```
render_template('create.html')
```

```
messages = [{'title': 'Message from sarah', 'content': 'Hai sneha'},  
            {'title': 'Message from sruthi ',  
             'content': 'hai team'}, {'title': 'Message from varshini ',  
             'content': 'hai all, how you all doing'}, {'title': 'Message from sahasra ',  
             'content': 'I am doing good and I hope u all too'}]
```

```
@app.route('/')
def index():
    return
render_template('index.html',
messages=messages)
```

```
@app.route('/admin')
def hello_admin():
    return 'Hello Admin'
```

```
@app.route('/guest/<guest>')
def hello_guest(guest):
    return 'Hello %s as Guest' % guest
```

```
@app.route('/user/<name>')
def hello_user(name):
    if name == 'admin':
        return
    redirect(url_for('hello_admin')) else:
        return redirect(url_for('hello_guest', guest = name))
```

```
if __name__ == '__main__':
    app.run(host='0.0.0.0', port=5000,
    debug=True)
```