**Assignment -4**

Kubernets /Docker

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| Assignment Date | 22 October 2022 |
| Student Name | Tamil Murasu R |
| Student Roll Number | 912419104034 |
| 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.

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| **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 = "Tamil"  return redirect(url\_for('index', messages=name ))  return render\_template('create.html')  messages = [{'title': 'Message from kamal',  'content': 'Hai Tamil'},  {'title': 'Message from john ',  'content': 'hai team'}      ]  @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) |
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