ASSIGNMENT IV

Student Roll Number	194301
Team ID	PNT2022TMID11405
Student Name	Kamalam G
Project Name	Customer care registry

QUESTION: 1

- name: flasknode

image: icr.io/helloworld1/newhelloworld

- 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 hello world app.
 - i, Install Container registry and create namespace.
 - ii, Create IBM cloud login. Pull and Push image.
 - iii, Then IBM container registry.
 - iv, Create a kubernetes cluster in IBM cloud and deploy hello world image or jobportal

image and also expose the same app to run in nodeport PROGRAM: Deployment.yaml apiVersion: apps/v1 kind: Deployment metadata: name: jobportal spec: replicas: 1 selector: matchLabels: app: flasknode template: metadata: labels: app: flasknode spec: containers:

imagePullPolicy: Always

ports:

- containerPort: 5000

Service.yaml

apiVersion: v1

kind: Service

metadata:

name: flask-node-deployment

spec:

ports:

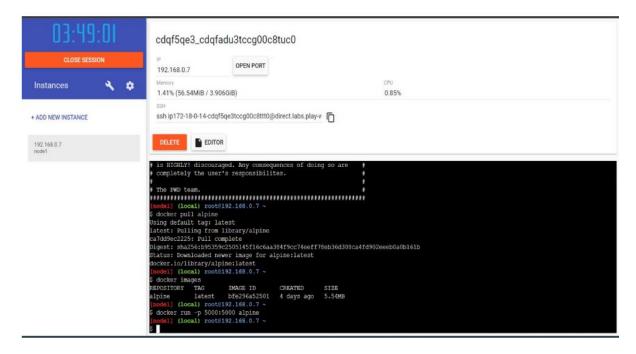
- port: 5000

targetPort: 5000

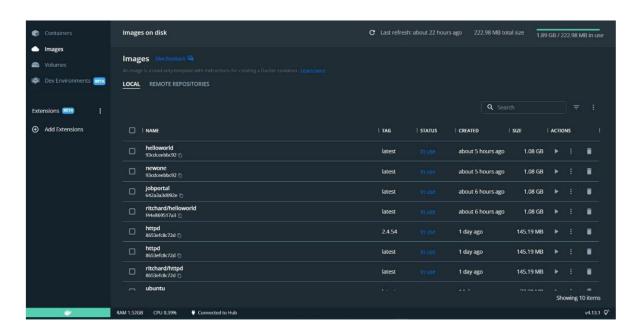
selector:

app: flasknode

OUT PUT



C:\Users\nithe\AppData\Local\Programs\Python\Python310\job-portal>docker run -p 8080:8080 helloworld
* 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)



```
Command Prompt
crosoft Windows [Version 10.0.22000.1219]
) Microsoft Corporation. All rights reserved.
 kug-in 'container-registry 1.0.2' was successfully installed into C:\Users\91936\.bluemix\plugins\container-registry. Use 'ibmcloud plugin show container-registry' to show its details.
  :\Users\91936>ibmcloud cr region-set global
he region is set to 'global', the registry is 'icr.io'.
 :\Users\91936>ibmcloud cr namespace-add newhelloworld
Adding namespace 'newhelloworld' in resource group 'Default' for account Ritchard M's Account in registry icr.io...
Successfully added namespace 'newhelloworld'
C:\Users\91936>
                                                                                                                                                                                                         O
                 https://cloud.ibm.com
us-south
ritchardmahimai@student.autmdu.in
ritchardmahimai@student.autmdu.in
Ritchard H's Account (c0e790659feb45e1a6bb8a7ebfec54ab)
No resource group targetal, use 'flueCloud target -g MESOURCE_GROUP'
```

```
### Account (cfe796499febScla8888a7e9fecStab)

Balca is region (or press enter to skip):

1. au-syd

2. in-che

3. in-che

4. in-che
```

