Assignment -4

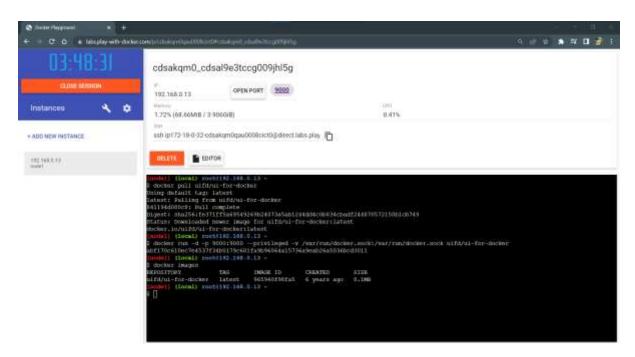
Kubernetes / Docker

Assignment Date	21 November 2022
Student Name	Delfin D
Student Roll Number	962219104046
Maximum Marks	2 Marks

Question-1:

Pull an Image from docker hub and run it in docker playground.

Solution:

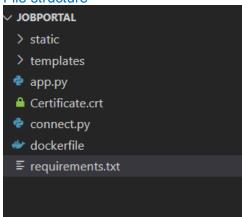


Question-2:

Create a docker file for the jobportal application and deploy it in Docker desktop application

Solution:

File structure



Docker File

```
dockerfile X

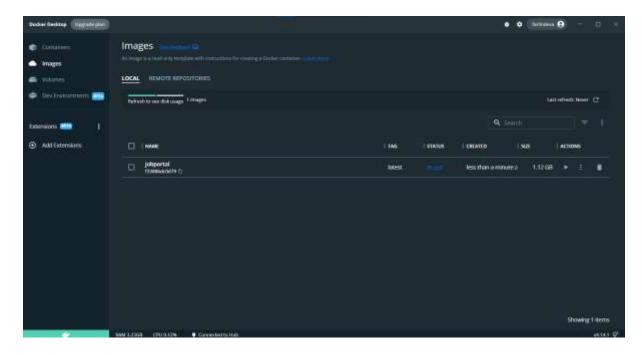
dockerfile > ...

1  FROM python
2  WORKDIR /jobportalapp
3  COPY . .
4  RUN pip install -r requirements.txt
5  EXPOSE 5000
6  CMD ["python", "app.py"]
```

Requirements file

```
    requirements.txt ×
    requirements.txt
        1    Flask==2.2.2
        2    ibm-db==3.1.3
```

```
On the two terms and the second training and the second till and till a
```



Question-3:

Create a IBM container registry and deploy helloworld app or jobportalapp

Solution:

```
The procession of special property of the files of the second the binary tile.

It would be the binary to the it would be the binary to the binary tile.

It would be the binary to the binary to the binary tile.

It would be the binary to the binary tile.

It would be the binary to the binary tile.

It would be the binary to the binary tile.

It would be the binary to the binary to the binary to the binary tile.

It would be the binary to the binary to the binary to the binary to the binary tile.

It would be the binary to the binary to the binary to the binary to the binary tile.

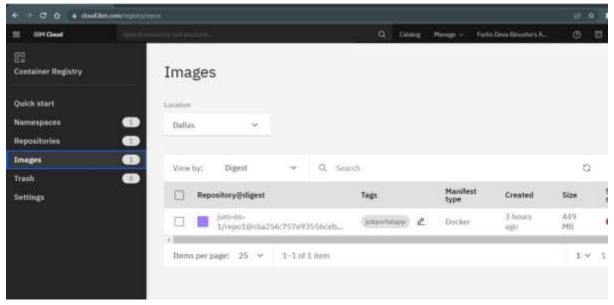
It would be the binary to the binary to the binary tile.

It would be the binary to the binary tile.

It would be the binary to the binary tile.

It would be the binary
```

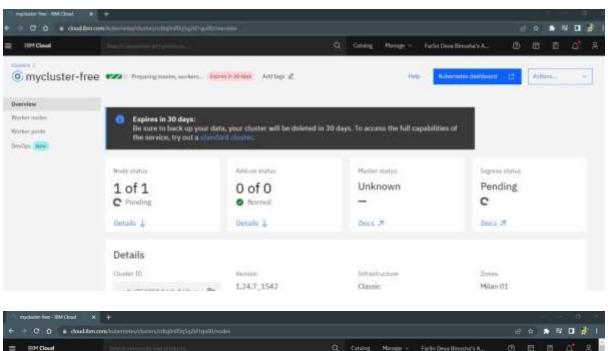


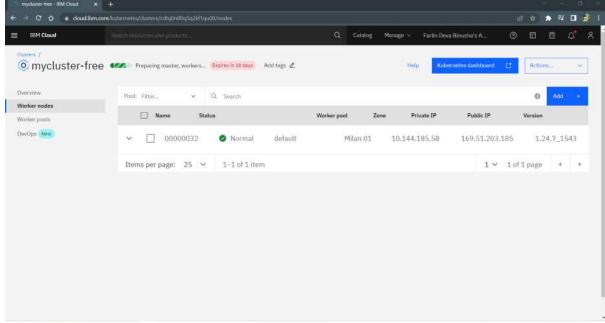


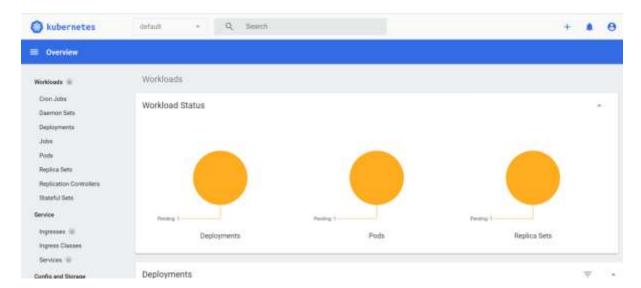
Question-4:

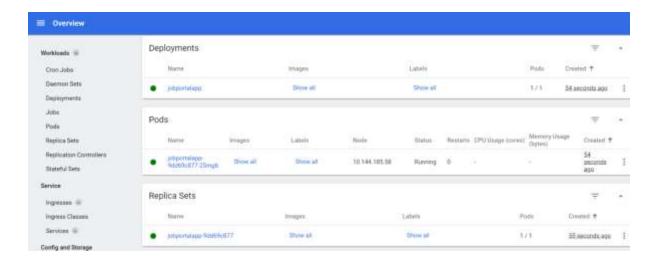
Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.

Solution:









Edit a resource

```
JSON
YAML
 JU
     spec.
       ports:
 51
         - name: tcp-5000-488-ct4tf
 52
          protocol: TCP
 53
            port: 5000
 54
          targetPort: 5000
 55
 56
           nodePort: 32576
 57
        selector:
       k8s-app: jobportalapp
clusterIP: 172.21.63.60
 58
 59
       clusterIPs:
 60
         - 172.21.63.60
 61
 62
        type: NodePort
        sessionAffinity: None
 63
 64
        externalTrafficPolicy: Cluster
 65
       ipFamilies:
 66
          - IPv4
       ipFamilyPolicy: SingleStack
 67
        allocateLoadBalancerNodePorts: true
       internalTrafficPolicy: Cluster
 69
 70
    status:
 71
       loadBalancer: {}
72
```

Update Cancel