## Assignment -4

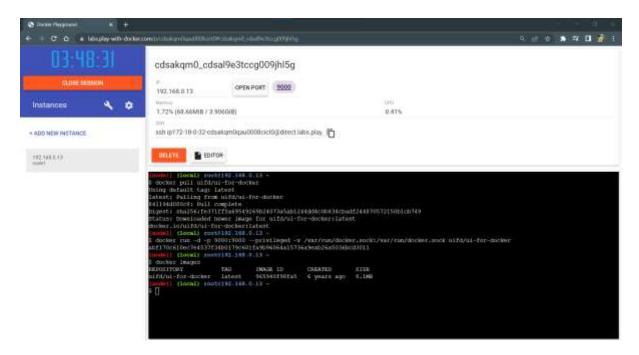
### Kubernetes / Docker

Assignment Date	21 November 2022
Student Name	Abisha G
Student Roll Number	962219104004
Maximum Marks	2 Marks

#### Question-1:

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

### **Solution:**

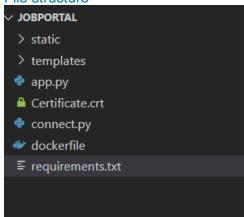


### Question-2:

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

#### **Solution:**

#### File structure



### Docker File

```
dockerfile X

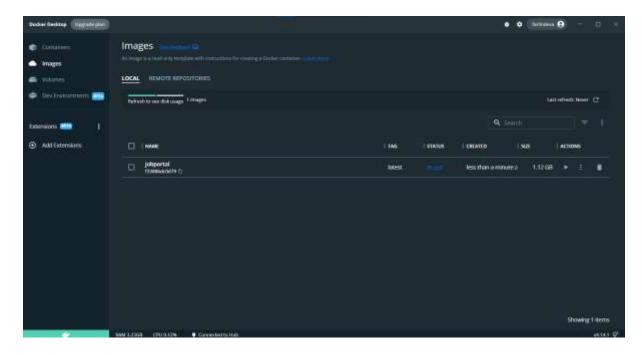
dockerfile > ...

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
```

```
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```



## Question-3:

Create a IBM container registry and deploy helloworld app or jobportalapp

## **Solution:**

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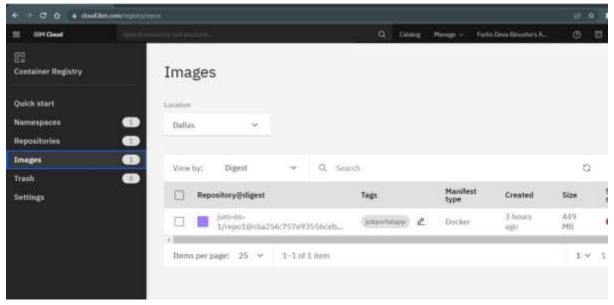
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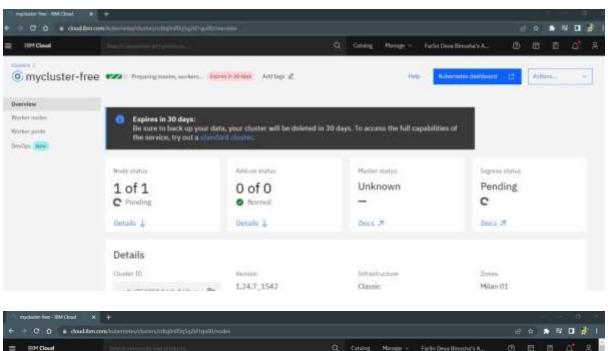


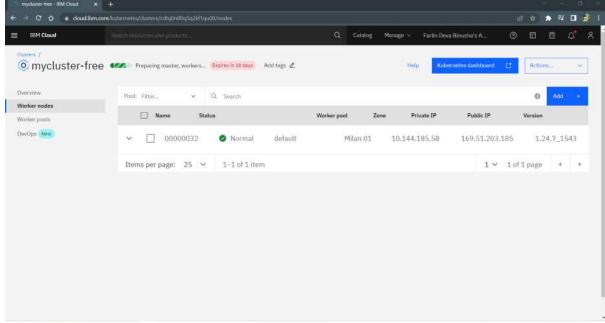


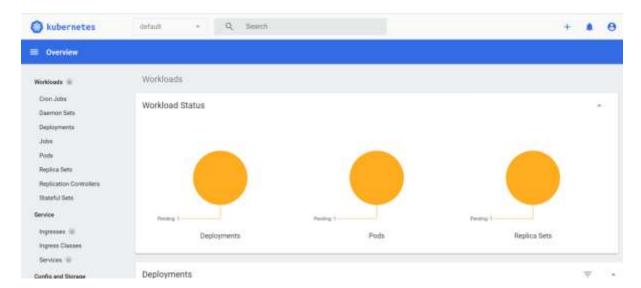
# Question-4:

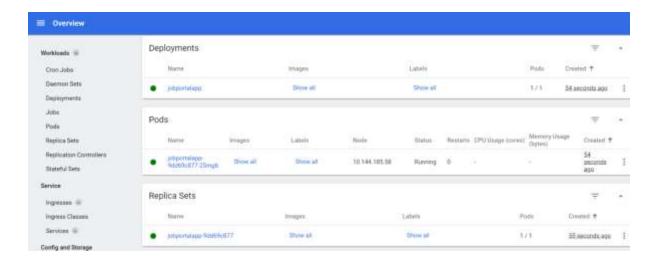
Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.

### **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