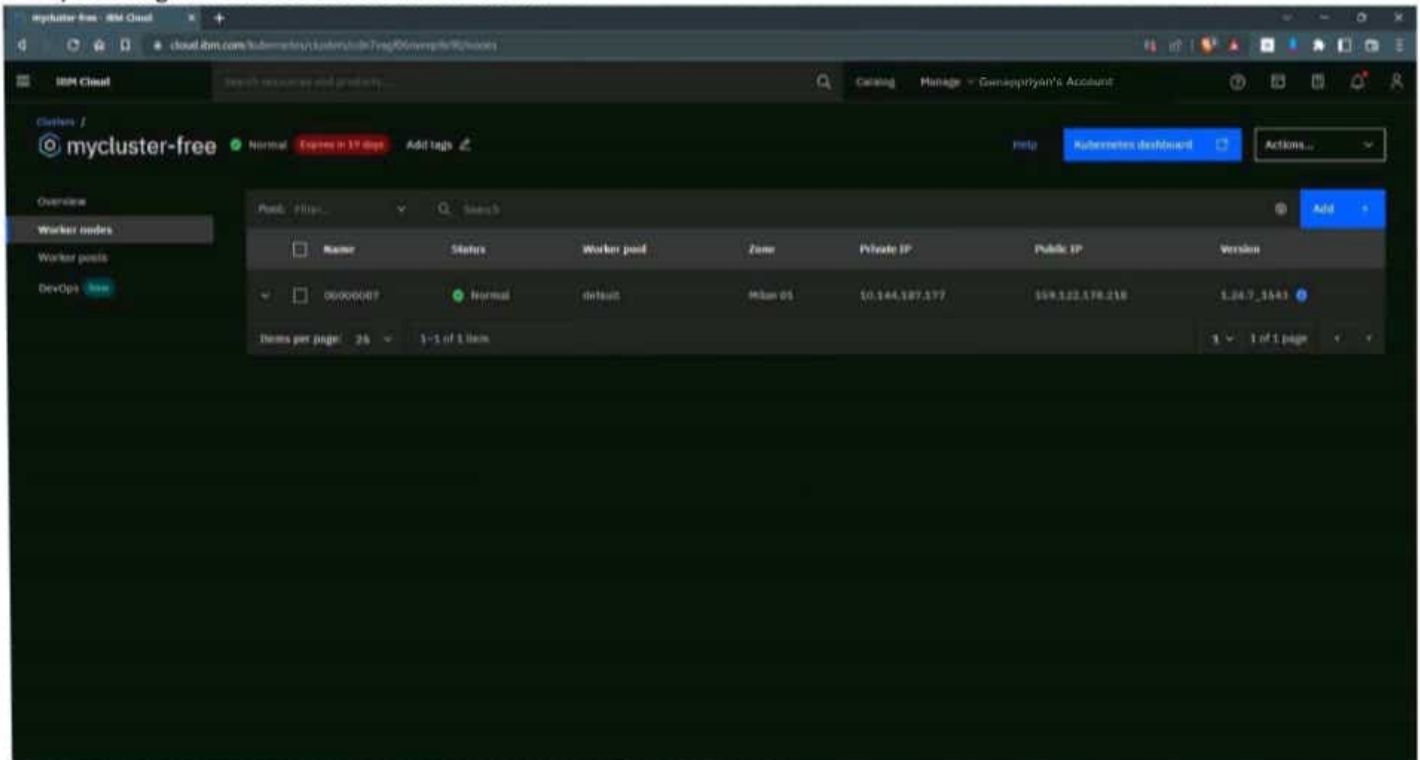


Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image or any other image and also expose the same app to run in nodeport.

1) Creating Kubernetes cluster in IBM cloud



2) deploy helloworld image or jobportal image and also expose the same app to run in nodeport

```
Windows PowerShell
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\Ganapp\Desktop\Assignment4> ibmcloud login -a cloud.ibm.com -r eu-de -g Default
API endpoint: https://cloud.ibm.com

Email> mdyaseen.246@gmail.com

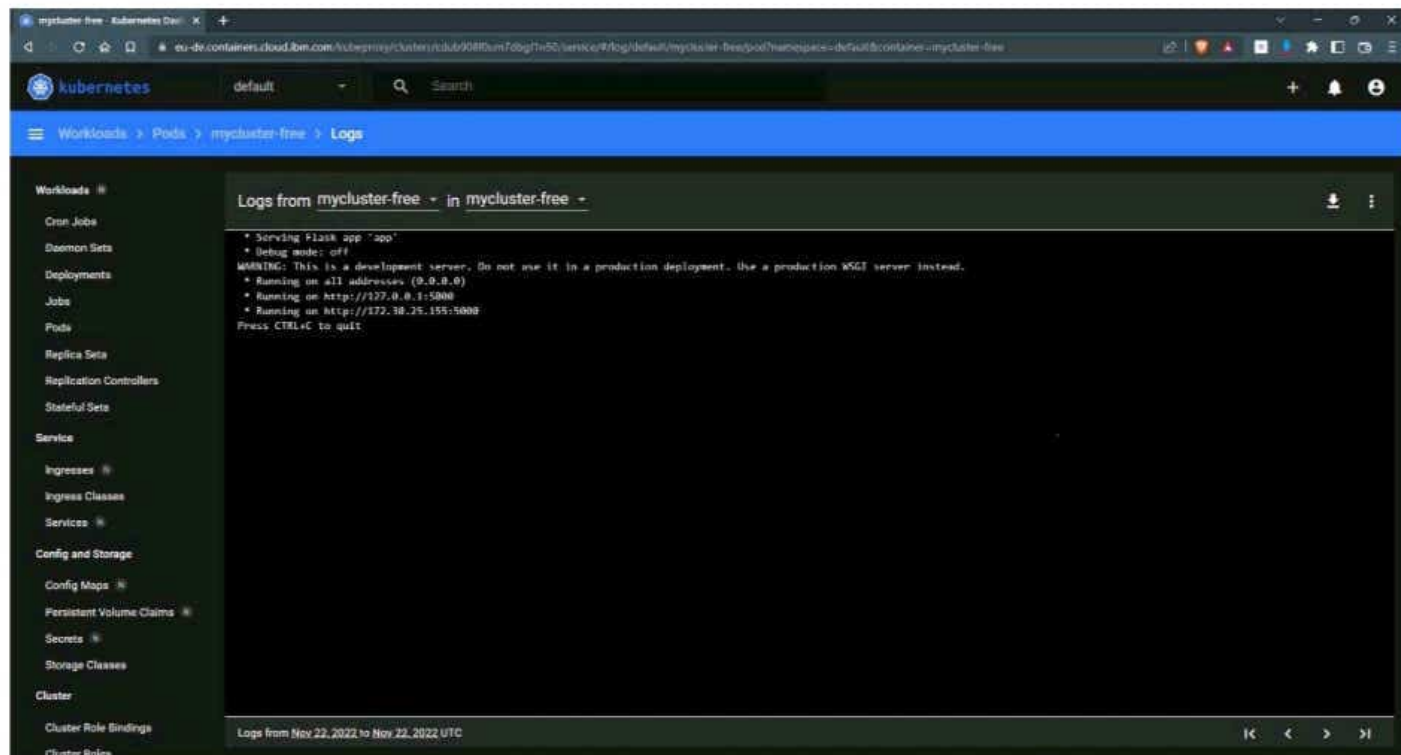
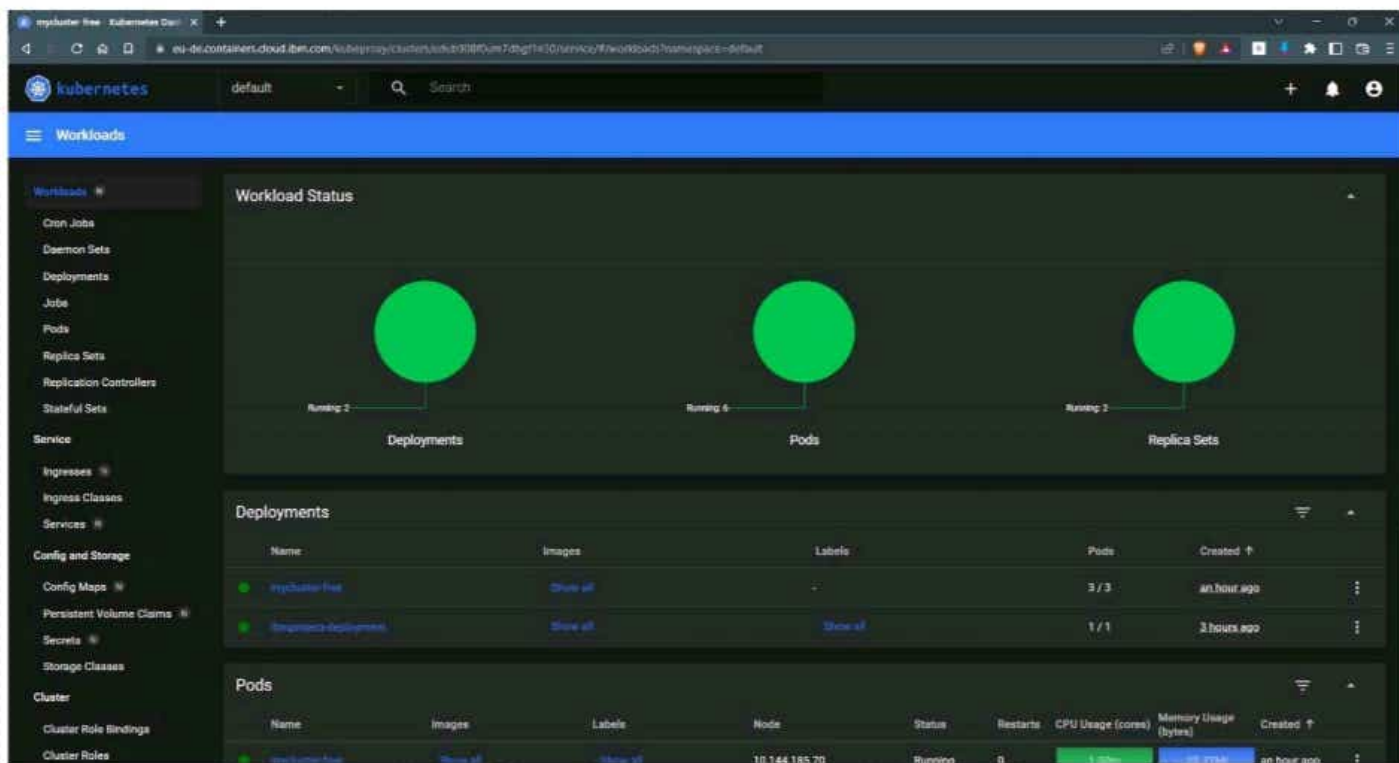
Password>
Authenticating...
OK

Targeted account Mohamed Yaseen's Account (b16c6751308c4cf5b9c374e8dd38ae18)

Targeted resource group Default

Targeted region eu-de

API endpoint: https://cloud.ibm.com
Region: eu-de
User: mdyaseen.246@gmail.com
Account: Mohamed Yaseen's Account (b16c6751308c4cf5b9c374e8dd38ae18)
Resource group: Default
CF API endpoint:
Org:
Space:
PS C:\Users\Ganapp\Desktop\Assignment4> kubectl apply -f .\kubernetes\ibm_deployment.yaml
deployment.apps/ibm-project created
PS C:\Users\Ganapp\Desktop\Assignment4> |
```



```
Windows PowerShell

Targeted region eu-de

API endpoint: https://cloud.ibm.com
Region: eu-de
User: mdyaseen.246@gmail.com
Account: Mohamed Yaseen's Account (b16c6751380c4cf5b9c374e8dd38ae18)
Resource group: Default
CF API endpoint:
Org:
Space:
PS C:\Users\Ganapp\Desktop\Assignment4> kubectl apply -f .\kubernetes\ibm_deployment.yaml
deployment.apps/ibm-project created
PS C:\Users\Ganapp\Desktop\Assignment4> kubectl get ing
NAME CLASS HOSTS ADDRESS PORTS AGE
flask-app-ingress <none> * 80 186m
PS C:\Users\Arunaci\Desktop\Assignment4> kubectl expose deployment mycluster-free --type=NodePort --name=flask-service
service/flask-service exposed
PS C:\Users\Ganapp\Desktop\Assignment4> kubectl proxy
Starting to serve on 127.0.0.1:8001
PS C:\Users\Ganapp\Desktop\Assignment4> kubectl get svc
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
flask-app-service NodePort 172.21.169.184 <none> 5000:32672/TCP 110m
flask-service NodePort 172.21.258.81 <none> 5000:32815/TCP 117s
ibmproject NodePort 172.21.91.42 <none> 3000:30960/TCP 3h34m
kubernetes ClusterIP 172.21.0.1 <none> 443/TCP 4h1m
mycluster-free-service NodePort 172.21.163.161 <none> 5000:31134/TCP 92m
yaseen-project-service ClusterIP 172.21.65.168 <none> 5000/TCP 119m
PS C:\Users\Ganapp\Desktop\Assignment4> |
```

