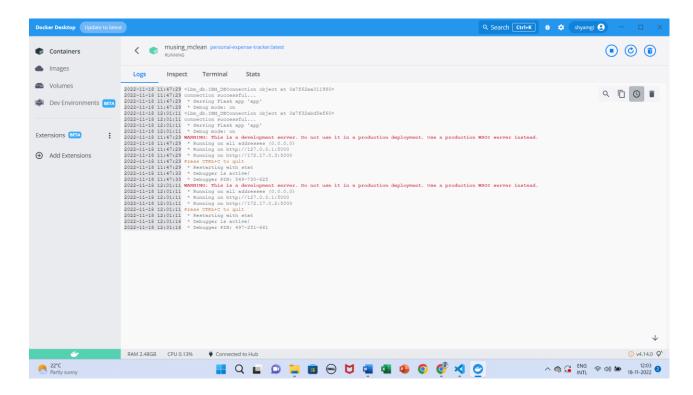
Date	19 September 2022		
Team ID	PNT2022TMID02527		
Project Name	Project – Personal Expense Tracker		
Team Lead	Vinodhini A		
Team Member 1	Shobana L		
Team Member 2	Shyam Sundar G		
Team Member 3	Varun Ba		

## DEPLOYING APP TO IBM CLOUD

## 1) BUILD A DOCKER IMAGE

#### 2) RUN THE DOCKER IMAGE

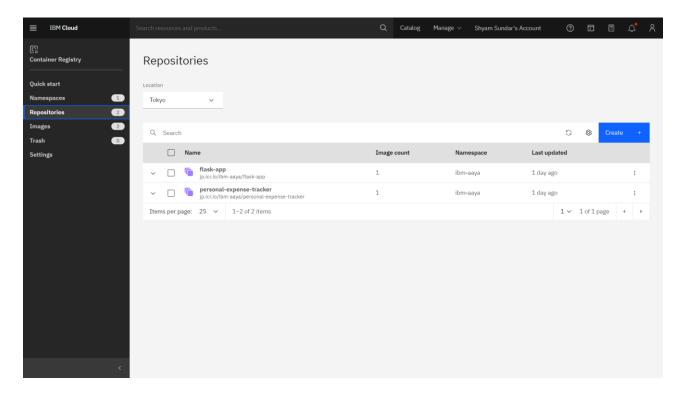


#### 3) PUSH IMAGE TO DOCKERHUB

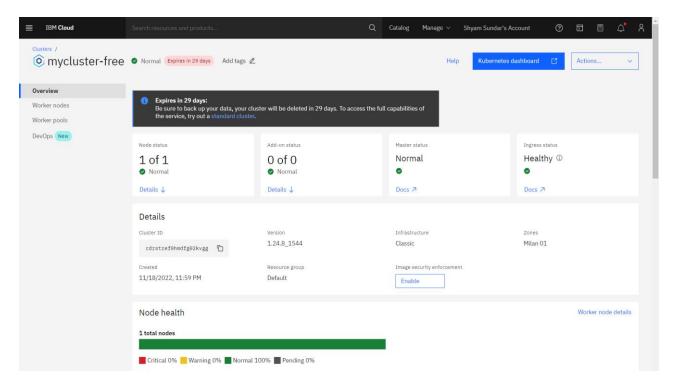
```
C:\Users\Shyam Sundar>docker push shyamgi/personal-expense-tracker
Using default tag: latest
The push refers to repository [docker.io/shyamgi/personal-expense-tracker]
8b7734b1693d: Layer already exists
214fdc78dedc: Layer already exists
b38ddd7666c7: Layer already exists
a211904ecd8b: Layer already exists
bfc1deb8136e: Layer already exists
1f123186824c: Layer already exists
3d6eb1152931: Layer already exists
100796cdf3b1: Layer already exists
54acb5a6fa0b: Layer already exists
8d51c618126f: Layer already exists
9ff6e4d46744: Layer already exists
a89d1d47b5a1: Layer already exists
655ed1b7a428: Layer already exists
latest: digest: sha256:72e9cad22a9291cf145f204dbd06637c9f7afd4b423ba82033d107ec71b8280b size: 3054
::\Users\Shyam Sundar>_
```

### 4) PUSH IMAGE TO IBM CONTAINER REGISTRY:

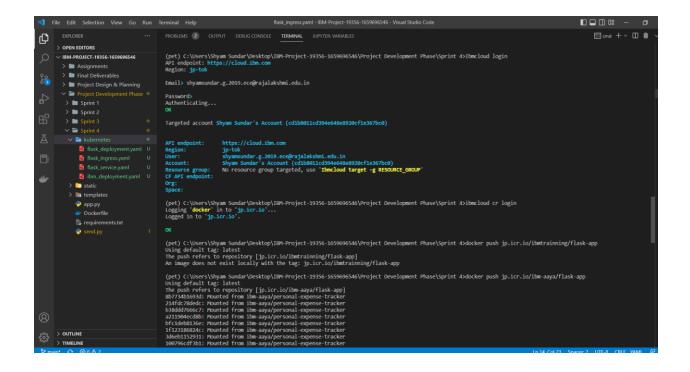
```
::\Users\Shyam Sundar>docker push jp.icr.io/ibm-aaya/personal-expense-tracker:latest
The push refers to repository [jp.icr.io/ibm-aaya/personal-expense-tracker]
8b7734b1693d: Layer already exists
214fdc78dedc: Layer already exists
b38ddd7666c7: Layer already exists
a211904ecd8b: Layer already exists
bfc1deb8136e: Layer already exists
1f123186824c: Layer already exists
3d6eb1152931: Layer already exists
100796cdf3b1: Layer already exists
54acb5a6fa0b: Layer already exists
8d51c618126f: Layer already exists
9ff6e4d46744: Layer already exists
a89d1d47b5a1: Layer already exists
655ed1b7a428: Layer already exists
latest: digest: sha256:72e9cad22a9291cf145f204dbd06637c9f7afd4b423ba82033d107ec71b8280b size: 3054
```

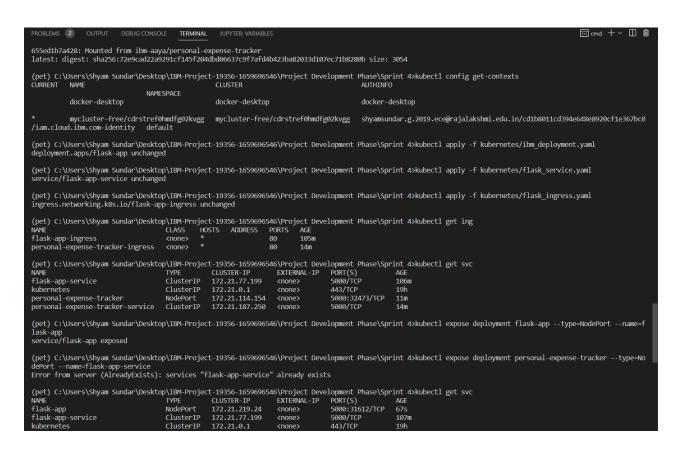


## 5) GETTING IBM KUBERNETES SERVICE



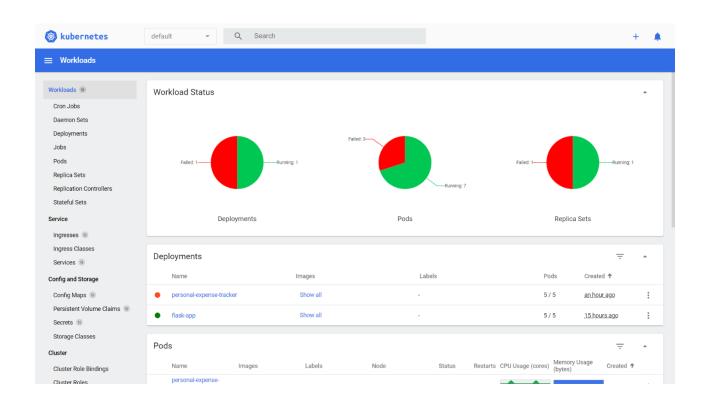
#### 6) DEPLOYING FLASK APP IN PUBLIC IP HOSTING IN KUBERNETES:





```
(pet) C:\Users\Shyam Sundar\Desktop\IBM-Project-19356-1659696546\Project Development Phase\Sprint 4>kubectl get svc
                                                                                     PORT(S)
5000:31612/TCP
5000/TCP
                                      TYPE
NodePort
                                                    172.21.219.24
flask-app
                                                                       <none>
flask-app-service
                                      ClusterIP
                                                   172.21.77.199
                                                                       <none>
                                                                                                          3h24m
kubernetes
                                      ClusterIP
                                                   172.21.0.1
                                                                                      443/TCP
                                                                       <none>
personal-expense-tracker
                                                    172.21.114.154
                                                                                       5000:32473/TCP
personal-expense-tracker-service
                                      ClusterIP
                                                   172.21.187.250
                                                                                      5000/TCP
(pet) C:\Users\Shyam Sundar\Desktop\IBM-Project-19356-1659696546\Project Development Phase\Sprint 4>kubectl get nodes -o wide
                 STATUS ROLES AGE VERSION INTERNAL-IP EXTERNAL-IP OS-IMAGE KERNEL-VERSION CONTAINER-RUNTIME
Ready <none> 21h v1.24.7+IKS 10.144.188.96 169.51.206.153 Ubuntu 18.04.6 LTS 4.15.0-194-generic containerd://1.6.8
10.144.188.96 Ready
(pet) C:\Users\Shyam Sundar\Desktop\IBM-Project-19356-1659696546\Project Development Phase\Sprint 4>
```

# http://169.51.206.153:31612/ : Public IP running by hosting Kubernetes



Flask App running successfully with 5 pods above

