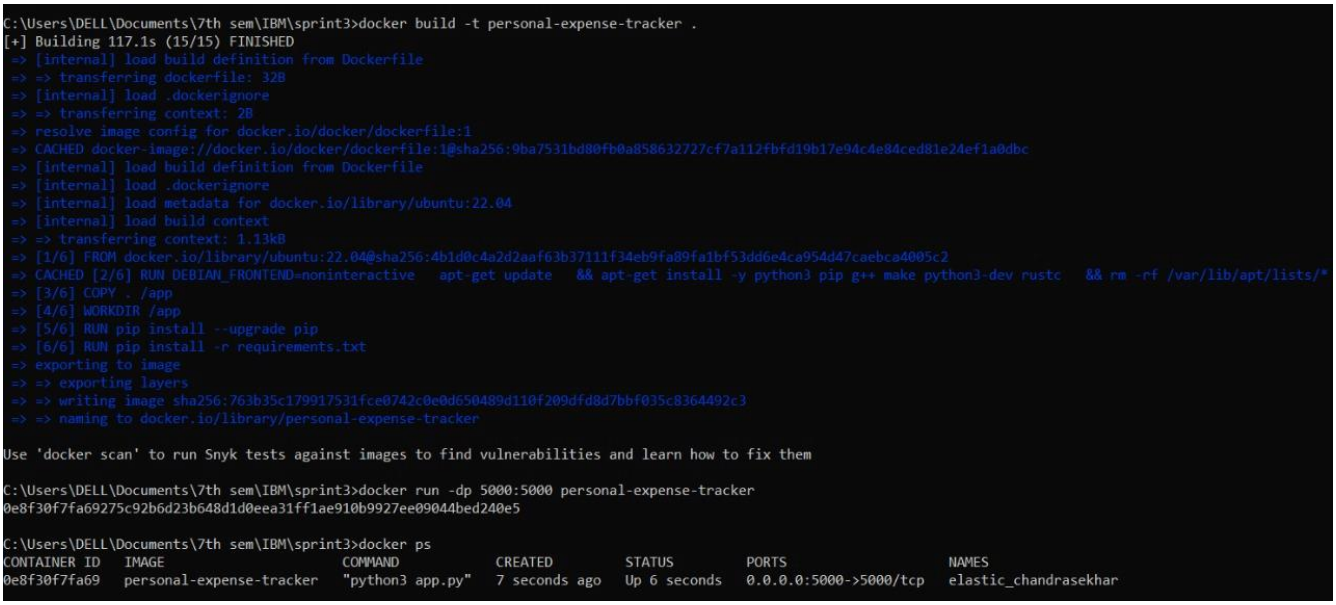
DEPLOYMENT OF APPLICATION TO IBM KUBERNETES

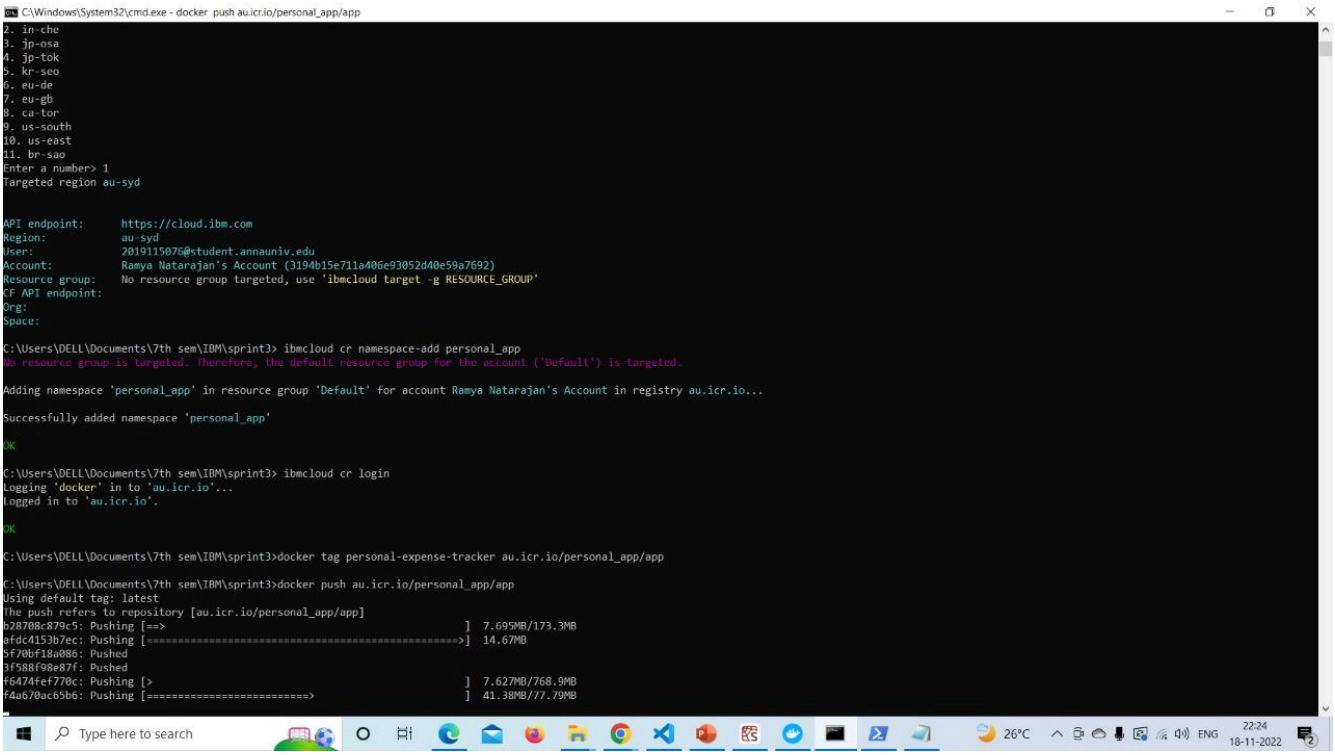
Date	18 November 2022
Team ID	PNT2022TMID35580
Project Name	Project – Personal Expense Tracker Application

Step 1: Create the docker file for the Application.

Step 2: Create a container of the Application and deploy it in IBM Container Registry.

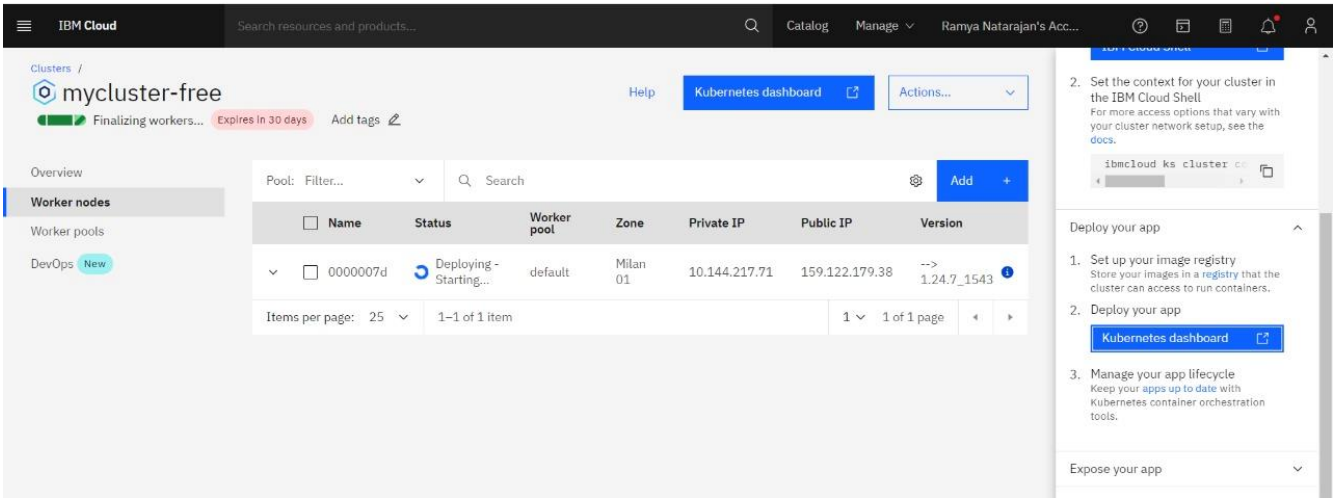
Step 3: Upload and deploy the container in IBM Kubernetes to get the URL which could be used anywhere anytime.



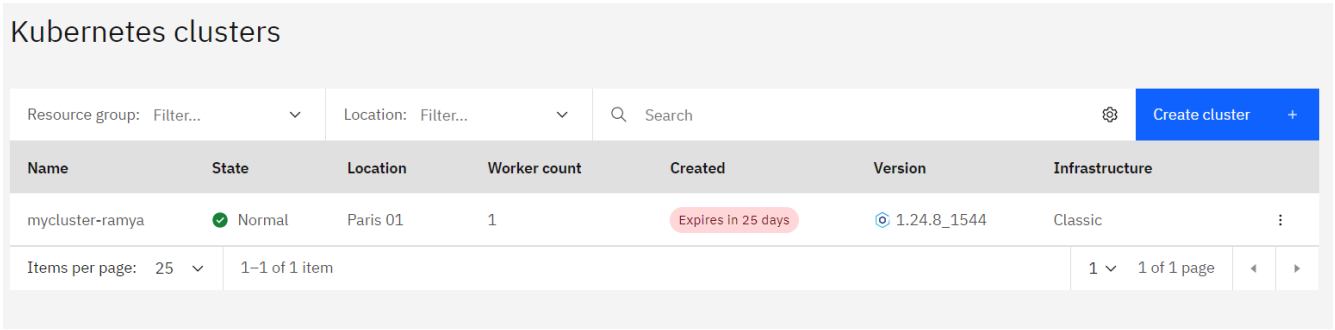



```
C:\Users\DELL\Documents\7th sem\IBM\sprint3>docker tag personal-expense-tracker au.icr.io/personal_app/app

C:\Users\DELL\Documents\7th sem\IBM\sprint3>docker push au.icr.io/personal_app/app
Using default tag: latest
The push refers to repository [au.icr.io/personal_app/app]
b28708c879c5: Pushed
afdc4153b7ec: Pushed
5f70bf18a086: Pushed
3f588f98e87f: Pushed
f6474fef770c: Pushed
f4a670ac65b6: Pushed
latest: digest: sha256:3380025470d5213b87c63d2ba7faf8f2bbcea142216f6cbb36023ead880c3166 size: 1581

C:\Users\DELL\Documents\7th sem\IBM\sprint3>
```

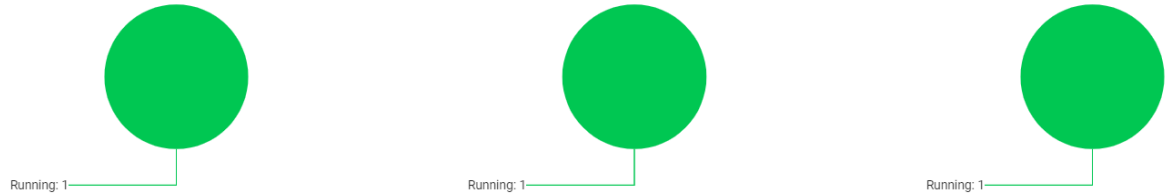
```
C:\Users\DELL\Documents\7th sem\IBM\sprint3> ibmcloud cr image-list
Listing images...

Repository                  Tag      Digest         Namespace     Created          Size     Security statu
au.icr.io/personal_app/app  latest   3380025470d5   personal_app  27 minutes ago   388 MB   -

OK
```



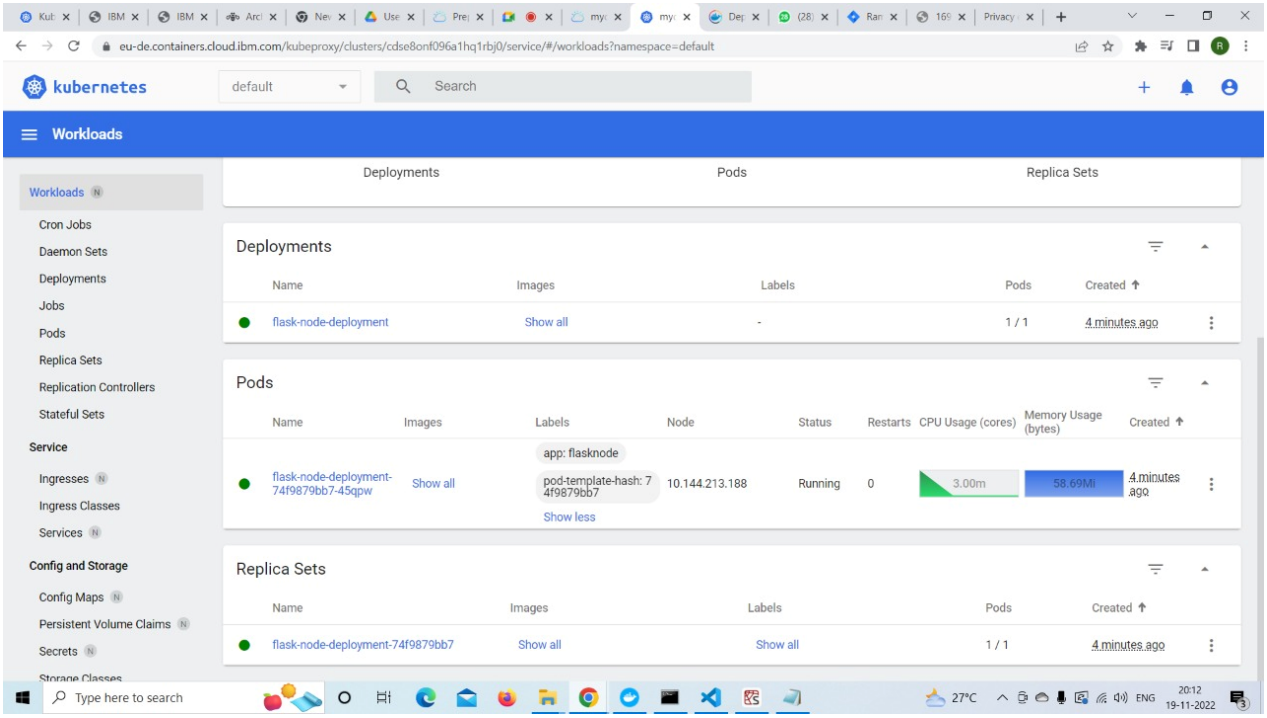

```
C:\Users\DELL\Documents\7th sem\IBM\sprint3>ibmcloud ks cluster config --cluster mycluster-ramya
OK
The configuration for mycluster-ramya was downloaded successfully.

Added context for mycluster-ramya to the current kubeconfig file.
You can now execute 'kubectl' commands against your cluster. For example, run 'kubectl get nodes'.
If you are accessing the cluster for the first time, 'kubectl' commands might fail for a few seconds while RBAC synchronizes.

C:\Users\DELL\Documents\7th sem\IBM\sprint3> kubectl get nodes
NAME            STATUS   ROLES    AGE     VERSION
10.144.213.188   Ready    <none>   6m40s   v1.24.7+IKS

C:\Users\DELL\Documents\7th sem\IBM\sprint3> kubectl create -f deployment.yaml
error: resource mapping not found for name: "flask-node-deployment" namespace: "" from "deployment.yaml": no matches for kind "Deployment" in version "extensions/v1beta1"
ensure CRDs are installed first

C:\Users\DELL\Documents\7th sem\IBM\sprint3> kubectl create -f deployment.yaml
error: resource mapping not found for name: "flask-node-deployment" namespace: "" from "deployment.yaml": no matches for kind "Deployment" in version "extensions/v1"
ensure CRDs are installed first

C:\Users\DELL\Documents\7th sem\IBM\sprint3> kubectl create -f deployment.yaml
deployment.apps/flask-node-deployment created

C:\Users\DELL\Documents\7th sem\IBM\sprint3> kubectl create -f service.yaml
service/flask-node-deployment created
```

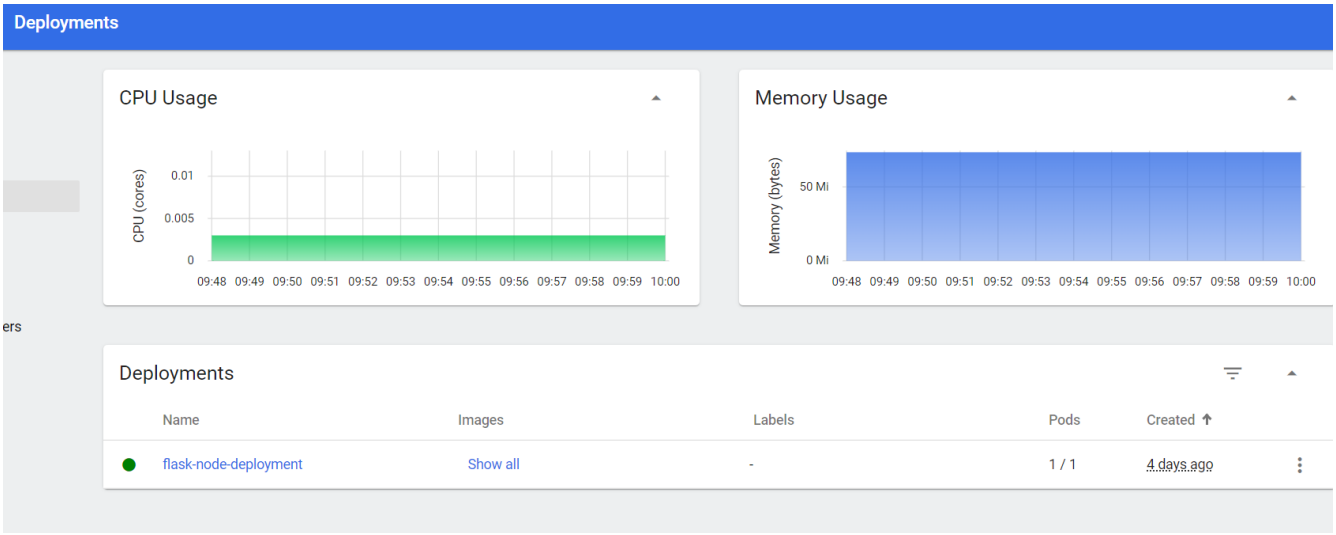


Workload Status



Deployments Pods Replica Sets




Deployments
CPU Usage
CPU (cores)
0.01
0.005
0
09:48 09:49 09:50 09:51 09:52 09:53 09:54 09:55 09:56 09:57 09:58 09:59 10:00
Memory Usage
Memory (bytes)
50 Mi
0 Mi
09:48 09:49 09:50 09:51 09:52 09:53 09:54 09:55 09:56 09:57 09:58 09:59 10:00
ers
Deployments
Name
Images
Labels
Pods
Created
flask-node-deployment
Show all
-
1 / 1
4 days ago