

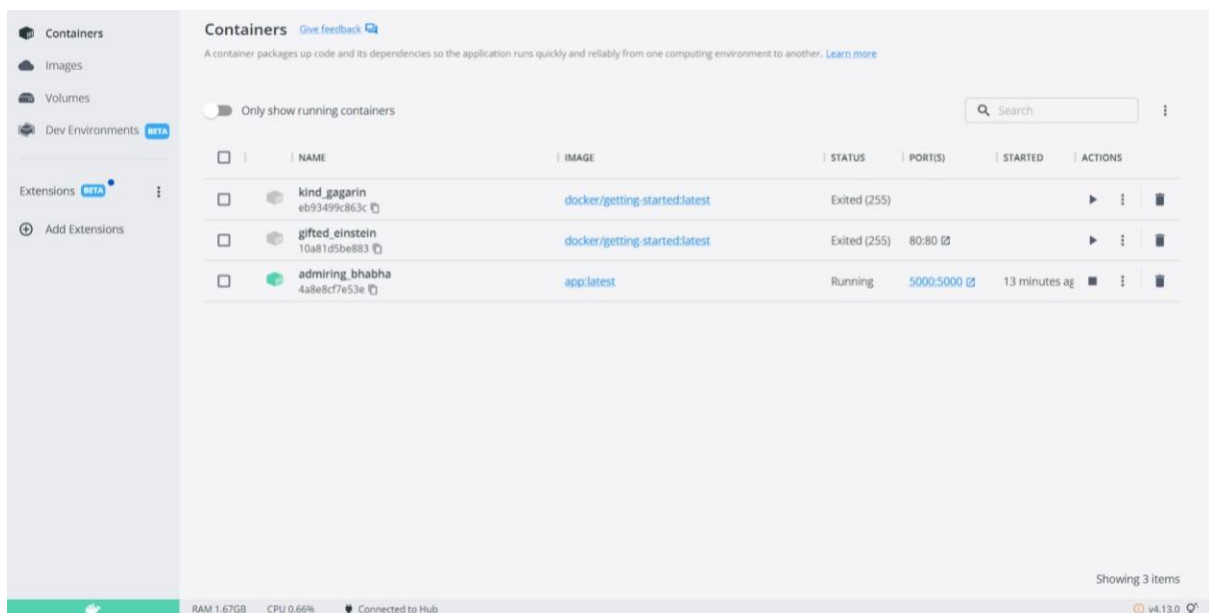
Assignment -4
PNT2022TMID11597

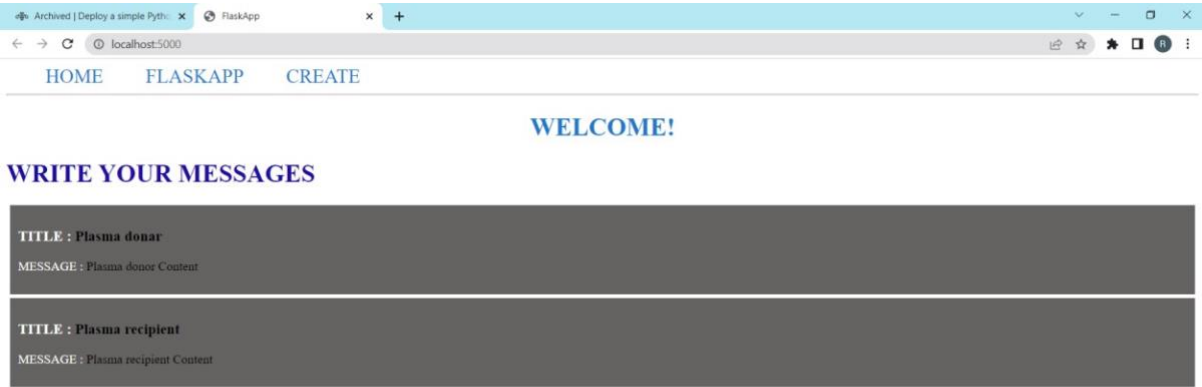
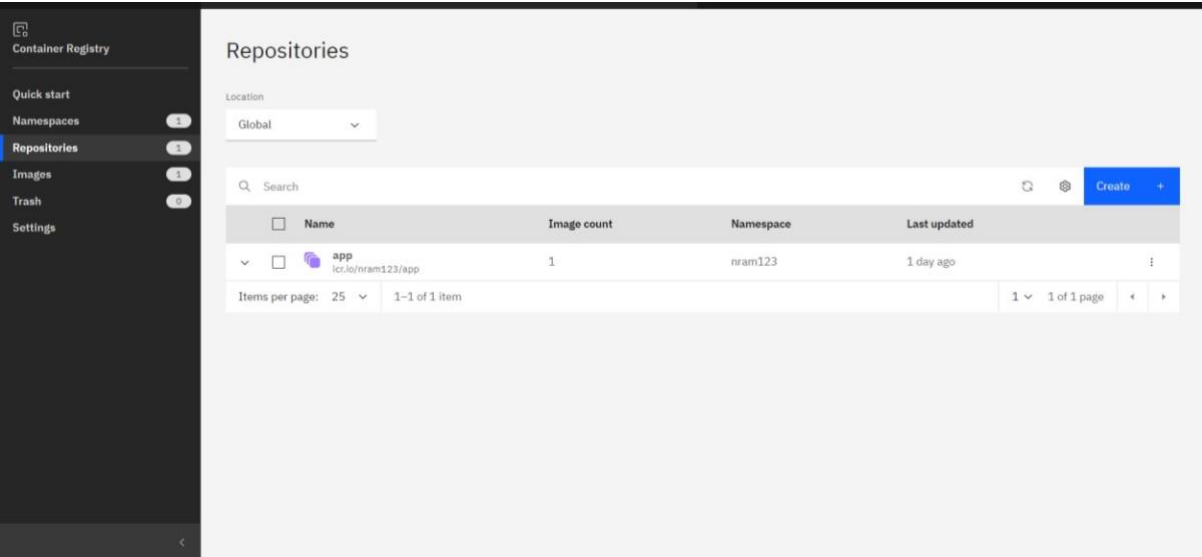
Assignment Date	2 nd November 2022
Team ID	PNT2022TMID11597
Project Name	Plasma Donor Application
Maximum Marks	2 Marks

Question :

1. Pull an Image from docker hub and run it in docker playground .
2. Create a docker file for the job portal application and deploy it in Docker desktop application.
3. Create a IBM container registry and deploy helloworld app or job portal app.
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 :





Containers

Images

Volumes

Dev Environments BETA

Extensions BETA

Add Extensions

Images on disk

Last refresh: about 21 hours ago14 Images3.63 GB total size995.26 MB / 3.63 GB in useClean up

Images [Give feedback](#)

LOCALREMOTE REPOSITORIES

☐ In use only

NAME ↑	TAG	IMAGE ID	CREATED	SIZE
app	latest	2b2bc2273665	1 day ago	904.54 MB
centos	latest	5d0da3dc9764	about 1 year ago	231.27 MB
docker/desktop-storage-provisio...	v2.0	99f89471f470	over 1 year ago	41.85 MB
docker/desktop-vpnkit-controller	v2.0	8c2c38aa676e	over 1 year ago	21.03 MB
docker/getting-started	latest	cb90f98fd791	7 months ago	28.78 MB
icr.io/nram123/app	latest	85e10b77b370	2 days ago	904.54 MB
k8s.gcr.io/coredns	v1.9.3	5185b96f0bec	5 months ago	48.8 MB
k8s.gcr.io/etcd	3.5.4-0	a8a176a5d5d6	5 months ago	299.52 MB
k8s.gcr.io/kube-apiserver	v1.25.2	97801f839490	about 1 month ago	127.73 MB
k8s.gcr.io/kube-controller-manager	v1.25.2	dbfceb93c69b	about 1 month ago	117.1 MB

RAM 3.23GB CPU 4.90% Connected to Hubv4.13.0

Overview

Cluster

Namespaces

Nodes

Persistent Volumes

Roles

Storage Classes

Namespaces

default

Overview

Workloads

Cron Jobs

Daemon Sets

Deployments

Jobs

Pods

Replica Sets

Replication Controllers

Stateful Sets

Discovery and Load Balancing

Ingresses

Services

Config and Storage

Deployments

Name	Labels	Pods	Age	Images
flask-node-deployment	app: flasknode	1 / 1	5 minutes	registry.ng.bluemix.net/flask-node/app

Pods

Name	Node	Status	Restarts	Age	CPU (cores)	Memory (bytes)
flask-node-deployment-5cc96cf6b0-d9n6x	10.47.79.201	Running	0	5 minutes	0	19.352 Mi

Replica Sets

Name	Labels	Pods	Age	Images
flask-node-deployment-5cc96cf6b0	app: flasknode pod-template-hash: 1785279267	1 / 1	5 minutes	registry.ng.bluemix.net/flask-node/app

Discovery and Load Balancing

Services

Name	Labels	Cluster IP	Internal endpoints	External endpoints	Age
kubernetes	component: apiserver provider: kubernetes	172.21.0.1	kubernetes: 443 TCP kubernetes: 0 TCP	-	a minute
flask-node-deployment	-	172.21.104.14	flask-node-deployment: 5000 TCP flask-node-deployment: 0 TCP	-	a minute