Assignment -4

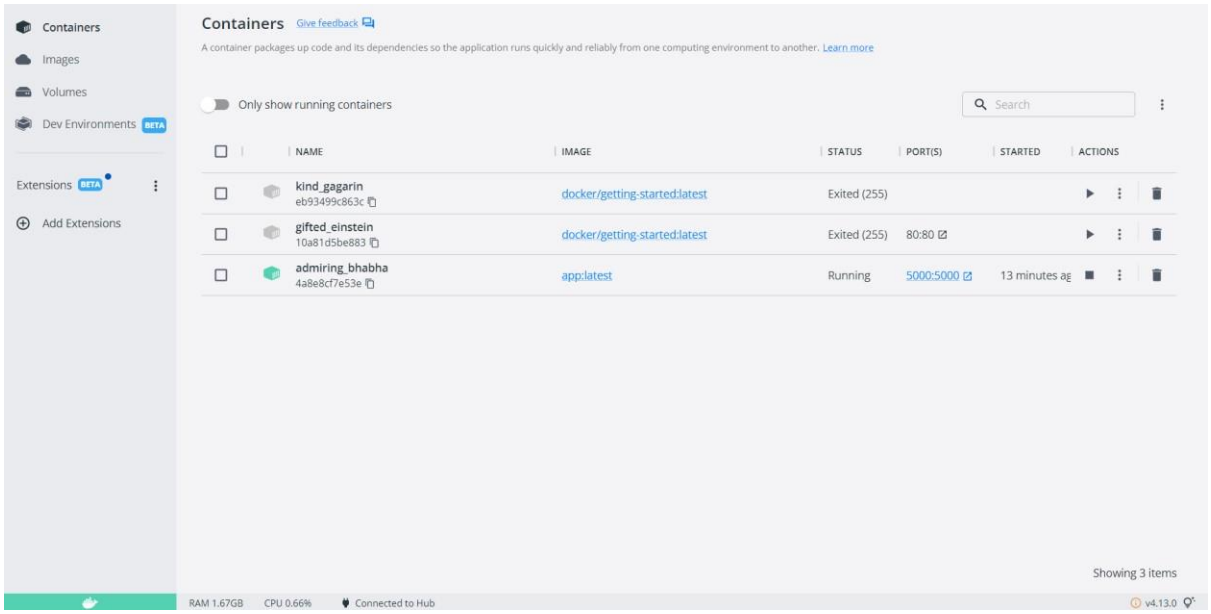
PNT2022TMID27090

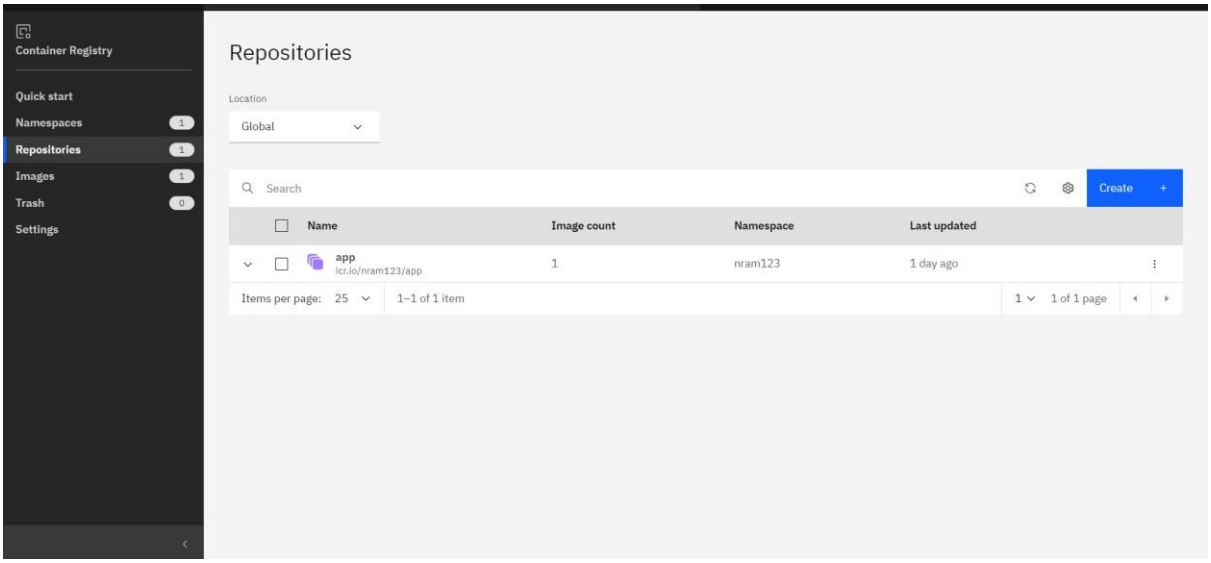
Assignment Date	2nd November 2022
Team ID	PNT2022TMID11597
Project Name	Plasma Donor Application
Maximum Marks	2 Marks

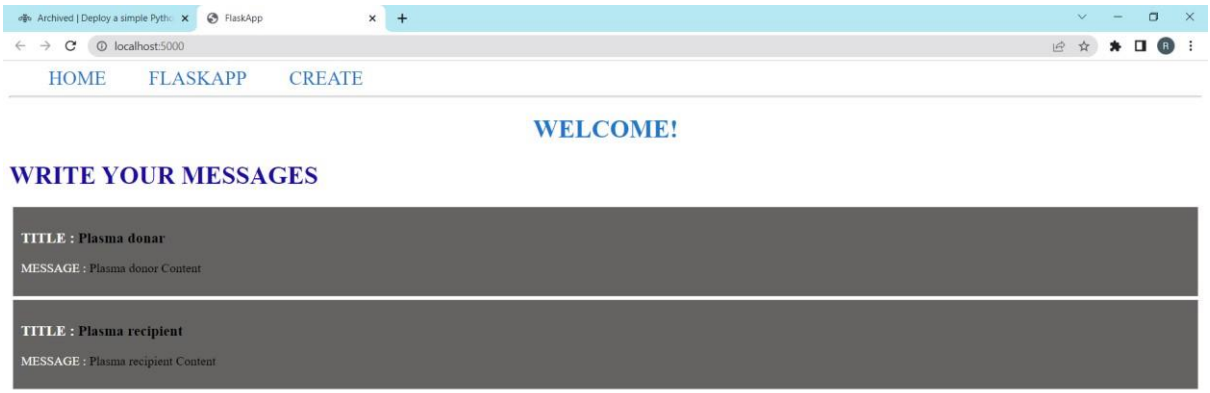
Question :

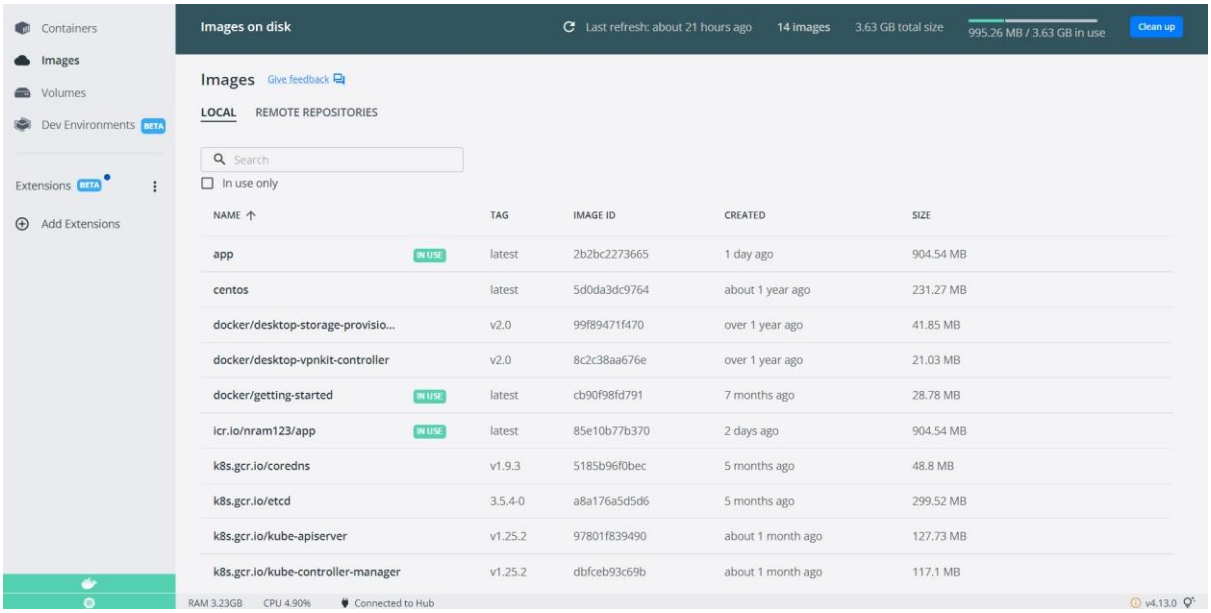
1. Pull an Image from docker hub and run it in docker playground.
2. Create a docker file for the jobportal application and deploy it in Docker desktop application.
3. Create a IBM container registry and deploy helloworld app or jobportalapp
4. Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport

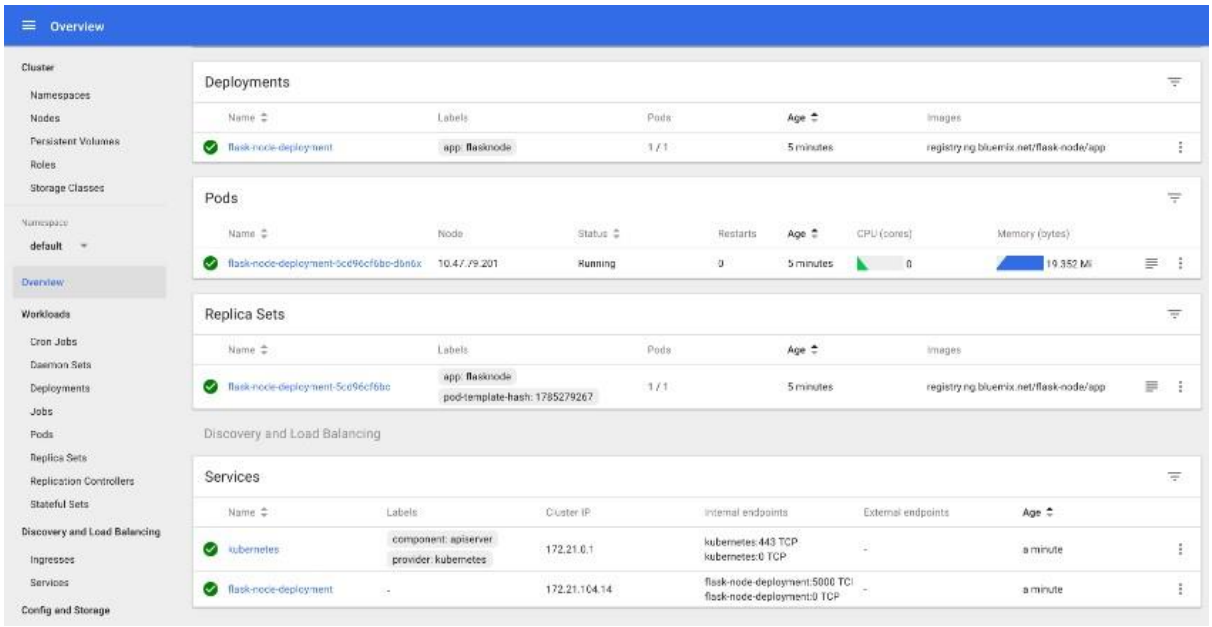
Solution :




Container Registry
Quick start
Namespaces 1
Repositories 1
Images 1
Trash 0
Settings
Repositories
Location
Global
Search
Create
Name
Image count
Namespace
Last updated
app
icr.io/nram123/app
1
nram123
1 day ago
Items per page: 25
1–1 of 1 item
1 of 1 page


Archived | Deploy a simple Pyth
FlaskApp
localhost:5000
HOME
FLASKAPP
CREATE
WELCOME!
WRITE YOUR MESSAGES
TITLE : Plasma donar
MESSAGE : Plasma donor Content
TITLE : Plasma recipient
MESSAGE : Plasma recipient Content


Containers
Images
Volumes
Dev Environments BETA
Extensions BETA
Add Extensions
Images on disk
Last refresh: about 21 hours ago
14 images
3.63 GB total size
995.26 MB / 3.63 GB in use
Clean up
Images
Give feedback
LOCAL
REMOTE REPOSITORIES
Search
In use only
NAME
TAG
IMAGE ID
CREATED
SIZE
app IN USE 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 IN USE latest cb90f98fd791 7 months ago 28.78 MB
icr.io/nram123/app IN USE 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 Hub
v4.13.0


Overview
Cluster
Namespaces
Nodes
Persistent Volumes
Roles
Storage Classes
Namespace
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-5cd96cf6bc-dbn6x
10.47.79.201
Running
0
5 minutes
0
19.352 Mi
Replica Sets
Name
Labels
Pods
Age
Images
flask-node-deployment-5cd96cf6bc
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