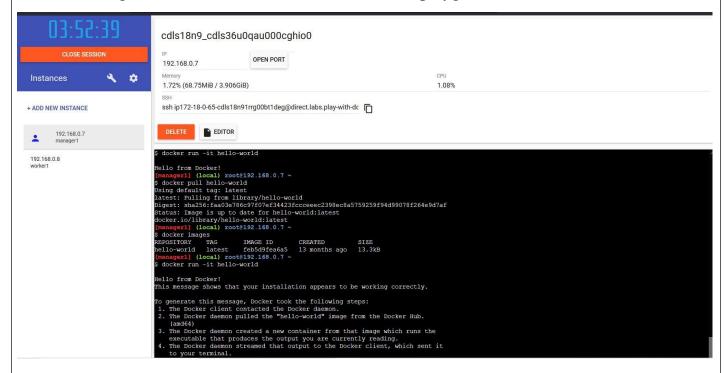
ASSIGNMENT 4

ROLL NUMBER	6113191041087
NAME	Sabari.K
TEAM ID	PNT2022TMID17124

1.Pull an Image from docker hub and run it in docker playground.

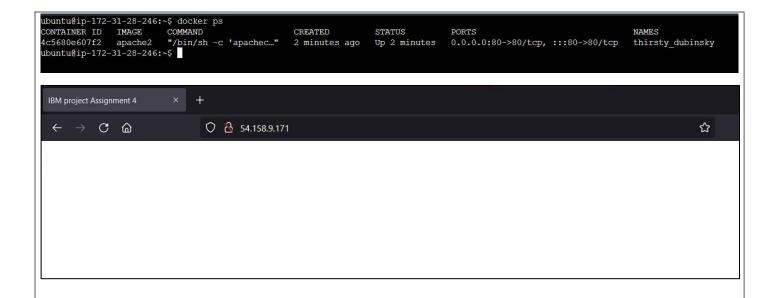


2.Create a docker file for the jobportal application and deploy it in Docker desktop application.

FROM ubuntu

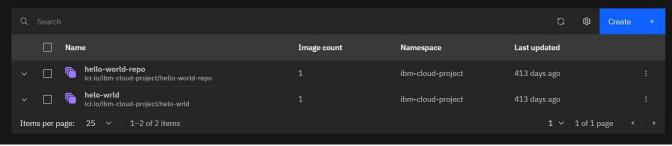
RUN apt-get update

```
RUN_ant-get anache2 -v
ubuntu@ip-172-31-28-246:~$ docker build .
Sending build context to Docker daemon 15.87kB
Step 1/5 : FROM ubuntu
 ---> a8780b506fa4
Step 2/5 : RUN apt-get update
 ---> Using cache
 ---> 981b376d63ad
Step 3/5 : RUN apt install apache2 -y
  --> Using cache
 ---> e6dc16c6e4bc
Step 4/5 : ADD ./index.html /var/www/html
   -> 7c2be22cde03
Step 5/5 : CMD apachect1 -D FOREGROUND
   -> Running in ad83f7238a24
 emoving intermediate container ad83f7238a24
   -> f874c46d2056
Successfully built f874c46d2056
Successfully tagged apache2:latest
```

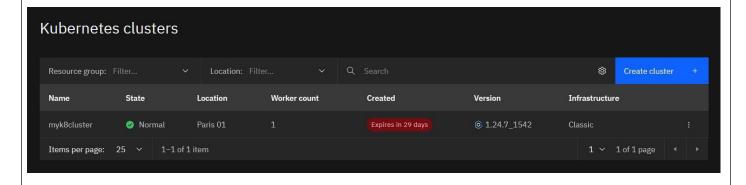


3.Create a IBM container registry and deploy hello world app or job portal app

```
-(siva® kali)-[~]
docker tag hello-world icr.io/ibm-cloud-project/helo-wrld:v1
  -(siva⊕ kali)-[~]
s docker images
REPOSITORY
                                            TAG
                                                      IMAGE ID
                                                                     CREATED
                                                                                     SIZE
                                                                                     13.3kB
hello-world
                                            latest
                                                      feb5d9fea6a5
                                                                     13 months ago
icr.io/ibm-cloud-project/hello-world-repo
                                                      feb5d9fea6a5
                                            latest
                                                                     13 months ago
                                                                                     13.3kB
icr.io/ibm-cloud-project/helo-wrld
                                                      feb5d9fea6a5
                                                                     13 months ago
                                                                                     13.3kB
  -(siva⊕kali)-[~]
s ibmcloud cr login
Logging 'docker' in to 'icr.io' ...
Logged in to 'icr.io'.
OK
  -(siva⊕ kali)-[~]
docker push icr.io/ibm-cloud-project/helo-wrld:v1
The push refers to repository [icr.io/ibm-cloud-project/helo-wrld]
e07ee1baac5f: Mounted from ibm-cloud-project/hello-world-repo
v1: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
```



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



ubuntu@ip-172-31-28-246:~\$ kubectl config current-context myk8cluster/cdls28cf0rjkfc1fiuag ubuntu@ip-172-31-28-246:~\$

ubuntu@ip-172-31-28-246:~/assignment4/jobportal\$ kubectl create -f deployment.yaml deployment.apps/flask-node-deployment created ubuntu@ip-172-31-28-246:~/assignment4/jobportal\$ kubectl create -f service.yaml service/flask-node-deployment created

ubuntu@ip-172-31-28-246:~/assignment4/jobportal\$ kubectl get pods

NAME READY STATUS RESTARTS AGE
flask-node-deployment-668f76c67-zwzv5 1/1 Running 0 14m

ubuntu@ip-172-31-28-246:~/assignment4/jobportal\$

ubuntu@ip-172-31-28-246:~/assignment4/jobportal\$ kubectl get service NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE flask-node-deployment ClusterIP 172.21.160.114 5000/TCP <none> 21m kubernetes ClusterIP 172.21.0.1 <none> 443/TCP 26h ubuntu@ip-172-31-28-246:~/assignment4/jobportal\$

