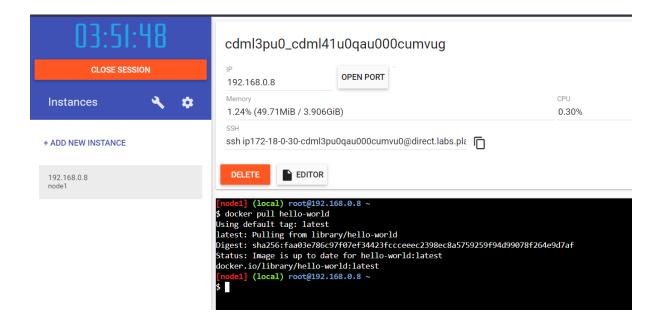
## TEAM ID: PNT2022TMID02725

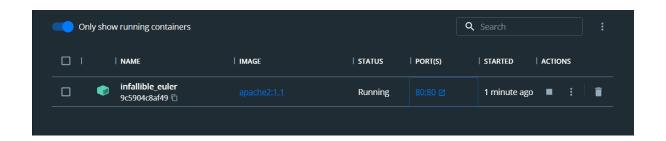
1) Pull an Image from docker hub and run it in docker playground.

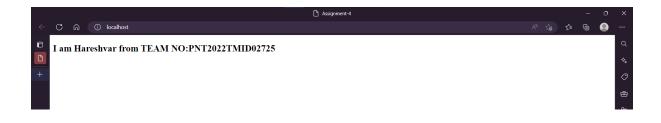


2) Create a docker file for the jobportal application and deploy it in Docker desktop application.

```
(hareshvar@ LAPTOP-9FBP22PP)-[/mnt/c/Dockerfiles]
$ docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
9c5904c8af49 apache2:1.2 "/bin/sh -c 'apache2..." 48 seconds ago Up 24 seconds 0.0.0:80->80/tcp infallible_e uler

(hareshvar@ LAPTOP-9FBP22PP)-[/mnt/c/Dockerfiles]
```





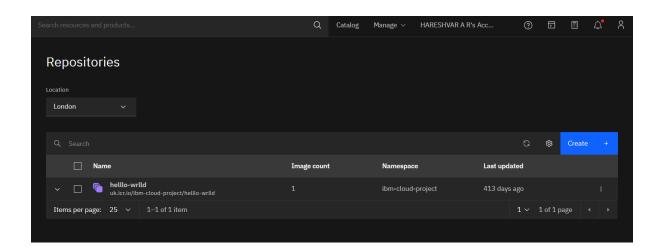
## 3) Create IBM Cloud Registry

```
C:\Users\HARESHVAR A R>docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:faa03e786c97f07ef34423fccceeec2398ec8a5759259f94d99078f264e9d7af
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest

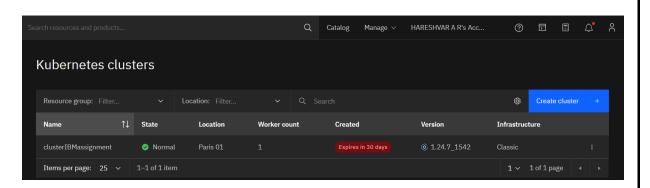
C:\Users\HARESHVAR A R>docker tag hello-world uk.icr.io/ibm-cloud-project/helllo-wrlld

C:\Users\HARESHVAR A R>docker push uk.icr.io/ibm-cloud-project/helllo-wrlld
Using default tag: latest
The push refers to repository [uk.icr.io/ibm-cloud-project/helllo-wrlld]
e07ee1baac5f: Pushed
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525

C:\Users\HARESHVAR A R>__
```



4) Create Kubernates cluster in IBM cloud and deploy app and also expose the same in nodeport



::\Users\HARESHVAR A R>ibmcloud ks cluster config --cluster cdmphupf0h8pv4c1i530 The configuration for cdmphupf0h8pv4c1i530 was downloaded successfully. Added context for cdmphupf0h8pv4c1i530 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 whi le RBAC synchronizes. C:\Users\HARESHVAR A R>kubectl config current-context clusterIBMassignment/cdmphupf0h8pv4c1i530 C:\Users\HARESHVAR A R>kubectl create -f deployment.yaml error: the path "deployment.yaml" does not exist C:\Users\HARESHVAR A R>kubectl get pods No resources found in default namespace. C:\Users\HARESHVAR A R>kubectl get nodes STATUS ROLES AGE VERSION NAME 10.144.182.14 Ready <none> 3h18m v1.24.7+IKS :\Users\HARESHVAR A R>cd C:/Dockerfiles/kubernets C:\Dockerfiles\Kubernets>kubectl create -f ibm\_deployment.yaml deployment.apps/flask-deploy created C:\Dockerfiles\Kubernets>kubectl create -f flask\_service.yaml service/flask-app-service created C:\Dockerfiles\Kubernets>kubectl create -f flask ingress.yaml ingress.networking.k8s.io/flask-app-ingress created C:\Dockerfiles\Kubernets>kubectl create -f flask\_deployment.yaml deployment.apps/flask-app created :\Dockerfiles\Kubernets>kubectl create -f dashboard\_adminuser.yaml clusterrolebinding.rbac.authorization.k8s.io/admin-user created

	Dep	loyments											
Cron Jobs		Name		Images		Label	s			Pods	Created 1		
Daemon Sets										0/3	10		
Deployments	•									0/3	19 minute	s ago	:
Jobs										0/3	21.minute	s.ago	
Pods													
Replica Sets	Pod	ls										÷	
Replication Controllers										Memory L	leana		
Stateful Sets		Name	Images	Labels	Node		Status	Restarts	CPU Usage (core	(bytes)	ouge c	reated 1	
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Ingresses N		flask-app-555694bdc7- fgb8x			10.144.182.14		ErrlmageNev	0				9 minutes go	
Ingress Classes Services N		flask-app-555694bdc7- gmh7m			10.144.182.14		ErrlmageNev	0				9 minutes go	
Config and Storage					10.144.182.14		ErrimageNev	0				9 minutes go	
Config Maps N  Persistent Volume Claims N		flask-deploy- 5b55d88fdd-6wgc7			10.144.182.14		ImagePullBa	0				1.minutes go	