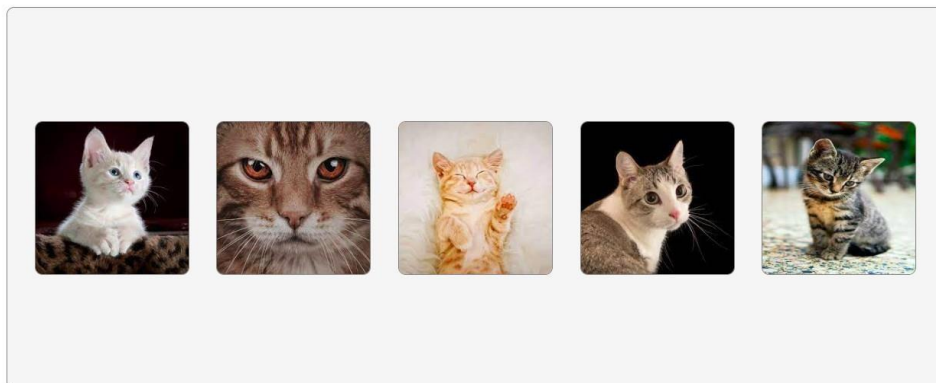
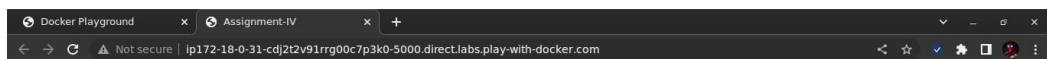


Assignment -4
IBM Cloud - Docker - Kubernetes

Assignment Date	04 November 2022
Student Name	Ravichandran.S
Student Roll Number	610519104081
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 / flask application and deploy it in Docker desktop application.
3. Create an IBM container registry and push docker image of flask application or job portal app.
4. Create a Kubernetes cluster in IBM cloud and deploy flask application image or job portal image and also expose the same app to run in node port.



Docker Playground

Assignment-IV

labs.play-with-docker.com/p/cdj2t2v91rrg00c7p3k0#cdj2t2v9_cdj2t5f91rrg00c7p3kg

03:53:40

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.18
node1

cdj2t2v9_cdj2t5f91rrg00c7p3kg

IP
192.168.0.18

OPEN PORT
5000

Memory
27.56% (1.077GiB / 3.906GiB)

CPU
0.44%

SSH
ssh ip172-18-0-31-cdj2t2v91rrg00c7p3k0@direct.labs.play-with-docker.com

DELETE

EDITOR

fa9c7528c685: Pull complete
53ad072f9cd1: Pull complete
d6b983117533: Pull complete
d8092d56ded5: Pull complete
c71afc637d59: Pull complete
864a10b3c704: Pull complete
4334b2fe8293: Pull complete
6e8491d92007: Pull complete
b4bdd4899745: Pull complete
994a52ee131b: Pull complete
70cfd2c6649f: Pull complete
Digest: sha256:08ea7f8b9bd9ce541aaa359f1bbbab853404e40293960cec40c617e76d785bf1
Status: Downloaded newer image for reeganrajasekar/assignment:latest
docker.io/reeganrajasekar/assignment:latest
[node1] (local) root@192.168.0.18 ~
\$ docker run -d -p 5000:5000 reeganrajasekar/assignment
a857d526ffafa7c74a8deeb337640120d1cad56b192ffc17aeb82f1165cbac3d
[node1] (local) root@192.168.0.18 ~
\$

Container Registry

Quick start

Namespaces1

Repositories1

Images1

Trash0

Settings

Namespaces

LocationTokyo

Resource group: Filter... Search

Create +

Name	Resource group	Repository count	Image count	Retention policy
assignment_4	Default	1	1	Retain all images
Repository		Image count		Last updated
jp.icr.io/assignment_4/assignment_4		1		1 day ago

Items per page: 251-1 of 1 item

WorkloadsPods

Workloads

Cron Jobs

Daemon Sets

Deployments

Jobs

Pods

Replica Sets

Replication Controllers

Stateful Sets

Service

Ingresses

Ingress Classes

Services

Config and Storage

Config Maps

CPU Usage

Memory Usage

Pods

Name	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created
assignment4-55cd499756-5mnzm	Show all	Show all	10.144.194.84	Running	0	1.00m	19.44Mi	17 minutes ago
assignment4-55cd499756-6mj2n	Show all	Show all	10.144.194.84	Running	0	1.00m	19.39Mi	17 minutes ago
assignment4-55cd499756-hi58f	Show all	Show all	10.144.194.84	Running	0	1.00m	19.44Mi	17 minutes ago

Workloads

Workloads

Cron Jobs

Daemon Sets

Deployments

Jobs

Pods

Replica Sets

Replication Controllers

Stateful Sets

Service

Ingresses

Ingress Classes

Services

Config and Storage

Config Maps

Workload Status

Running: 1

Deployments

Running: 5

Pods

Container Registry

Quick start

Namespaces 1

Repositories 1

Images 1

Trash 0

Settings

Namespaces

Location

Tokyo

Resource group: Filter...

Search

Create

	Name	Resource group	Repository count	Image count	Retention policy
	assignment_4	Default	1	1	Retain all images
Repository			Image count		Last updated
	jp.icr.io/assignment_4/assignment_4		1	1 day ago	

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