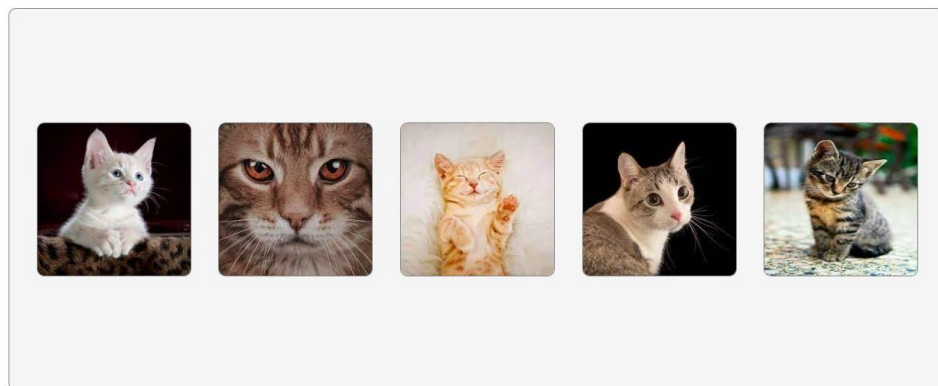
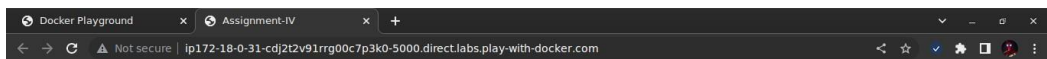
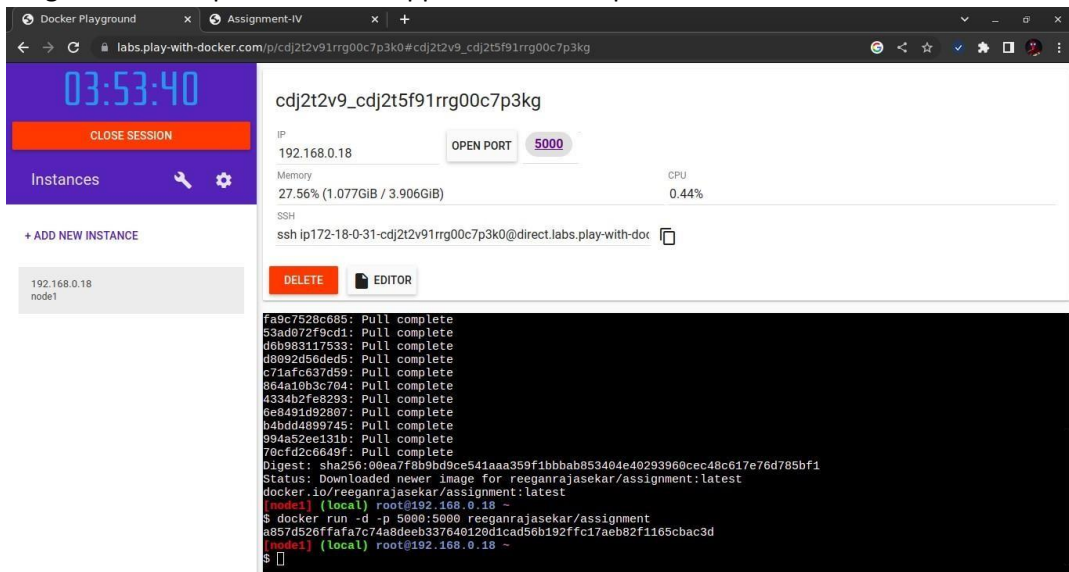


Assignment -4 IBM Cloud - Docker - Kubernetes

Assignment Date	21 October 2022
Student Name	Kaviyarasan.c
Student Roll Number	610919104038
Maximum Marks	2 Marks

Question:

1. Pull an Image from docker hub and run it in docker playground.
2. Create a dockerfile for the job portal / flask application and deploy it in Docker desktop application.
3. Create a 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 nodeport.



Container Registry

Quick start

Namespaces 1

Repositories 1

Images 1

Trash 0

Settings

Namespaces

Location

Tokyo

Resource group: Filter... Search

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: 25 1-1 of 1 item 1 1 of 1 page

Workloads > Pods

Workloads 0

Cron Jobs

Daemon Sets

Deployments

Jobs

Pods

Replica Sets

Replication Controllers

Stateful Sets

Service

Ingresses 0

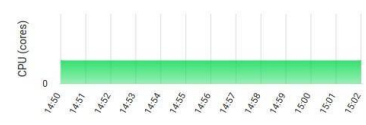
Ingress Classes

Services 0

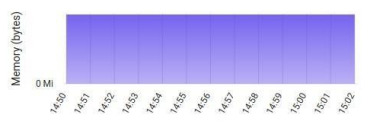
Config and Storage

Config Maps 0

CPU Usage



Memory Usage



Pods

Name	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created
assignment4-55cd499756-5mnmz	Show all	Show all	10.144.194.84	Running	0	1.00m	19.44Mi	17 minutes ago
assignment4-55cd499756-6m12n	Show all	Show all	10.144.194.84	Running	0	1.00m	19.39Mi	17 minutes ago
assignment4-55cd499756-h158f	Show all	Show all	10.144.194.84	Running	0	1.00m	19.44Mi	17 minutes ago

Workloads

Workloads 0

Cron Jobs

Daemon Sets

Deployments

Jobs

Pods

Replica Sets

Replication Controllers

Stateful Sets

Service

Ingresses 0

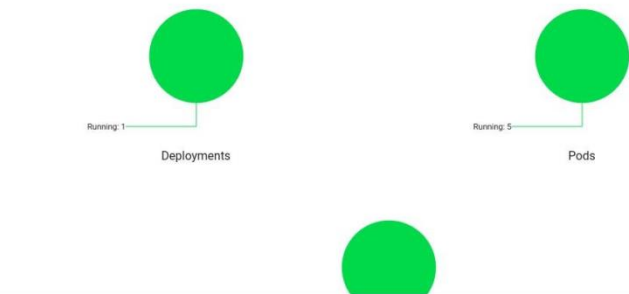
Ingress Classes

Services 0

Config and Storage

Config Maps 0

Workload Status



Clusters /

assignment Normal Expires in 30 days Add tags

Help

Kubernetes dashboard

Actions...

Overview

Worker nodes

Worker pools

DevOps New

Expires in 30 days:

Be sure to back up your data, your cluster will be deleted in 30 days. To access the full capabilities of the service, try out a standard cluster.

Node status

1 of 1

Normal

Details

Add-on status

0 of 0

Normal

Details

Master status

Normal

Docs

Ingress status

Unknown

Docs

Details

Cluster ID

cdj241s408n3dac113fg

Version

1.24.7_1542

Infrastructure

Classic

Zones

Milan 01

Created

05/11/2022, 14:14

Resource group

Default

Image security enforcement

Enable