

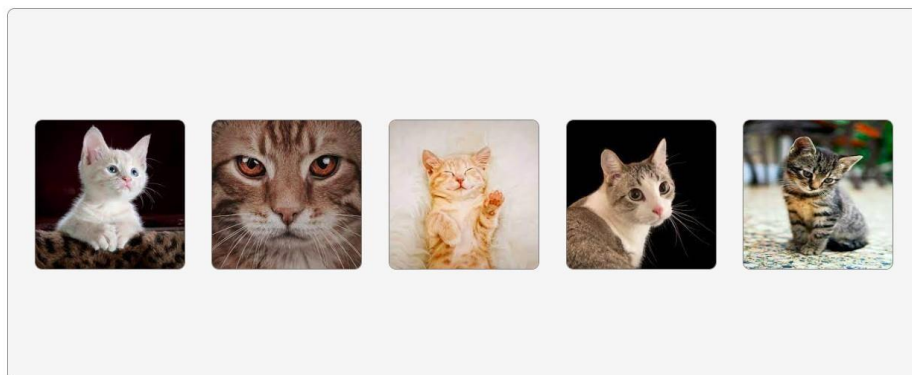
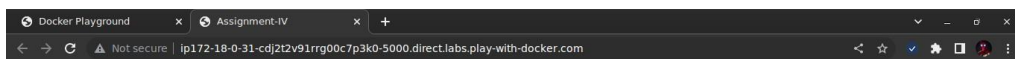
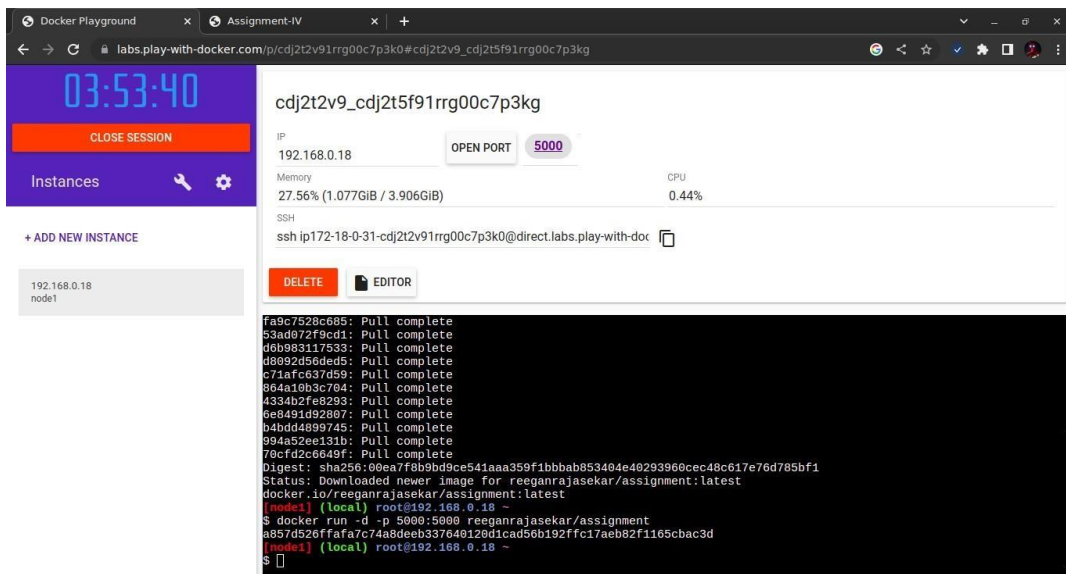
## Assignment -4

### IBM Cloud - Docker - Kubernetes

Assignment Date	04 November 2022
Student Name	Navrang K P
Student Roll Number	610519104070
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.



Container Registry

Quick start

Namespaces1

Repositories1

Images1

Trash0

Settings

# Namespaces

Location

Tokyo

Resource group: Filter...

Search

Create

<input type="checkbox"/>	Name	Resource group	Repository count	Image count	Retention policy	
<input checked="" type="checkbox"/>	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

11 of 1 page

Workloads > Pods

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
assignment4-55cd499756-6ml2n	Show all	Show all	10.144.194.84	Running	0	1.00m	19.39Mi	17 minutes ago
assignment4-55cd499756-hl58f	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

Namespaces1

Repositories1

Images1

Trash0

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

Items per page: 25

1-1 of 1 item

11 of 1 page