

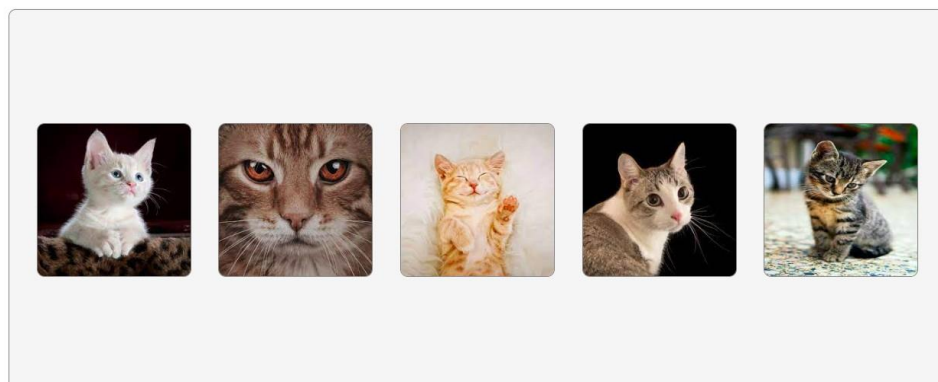
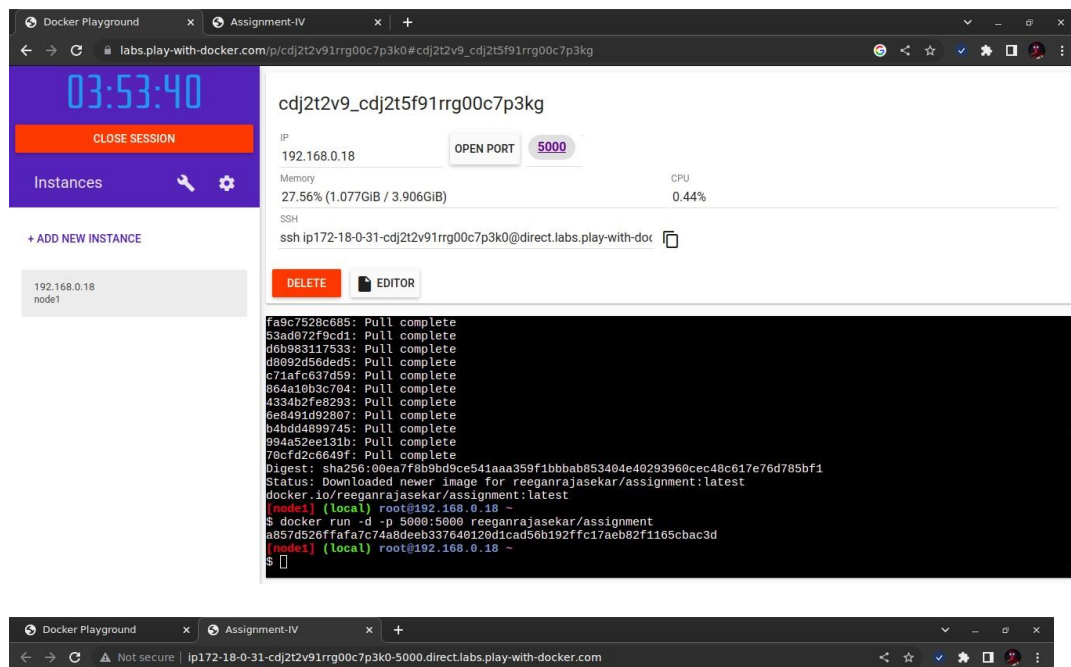
Assignment -4

IBM Cloud - Docker - Kubernetes

Assignment Date	04 November 2022
Student Name	Muthu Nila.R
Student Roll Number	610519104066
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...

Q 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	:

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1 of 1 page

Workloads > Pods

Workloads1

Cron Jobs

Daemon Sets

Deployments

Jobs

Pods

Replica Sets

Replication Controllers

Stateful Sets

Service

Ingresses1

Ingress Classes

Services1

Config and Storage

Config Maps1

CPU Usage

Memory Usage

Pods

	Name	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created
	assignment4-55cd499756-5mnmzm	Show all	Show all	10.144.194.84	Running	0	1.00m	19.44Mi	17 minutes ago
	assignment4-55cd499756-6mi2n	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

Workloads1

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Stateful Sets

Service

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Ingress Classes

Services1

Config and Storage

Config Maps1

Workload Status

Running: 1

Deployments

Running: 5

Pods

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Resource group: Filter... SearchCreate +

	Name	Resource group	Repository count	Image count	Retention policy	
	assignment_4	Default	1	1	Retain all images	:
Repository			Image count		Last updated	
	jp.lcr.io/assignment_4/assignment_4		1	1	1 day ago	:
Items per page: 25					1~1 of 1 item	
					11 of 1 page	