Assignment -4
IBM Cloud - Docker - Kubernets

Assignment Date	04 November 2022
Student Name	P.Sangeeth kumar
Student Roll Number	610519104086
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.
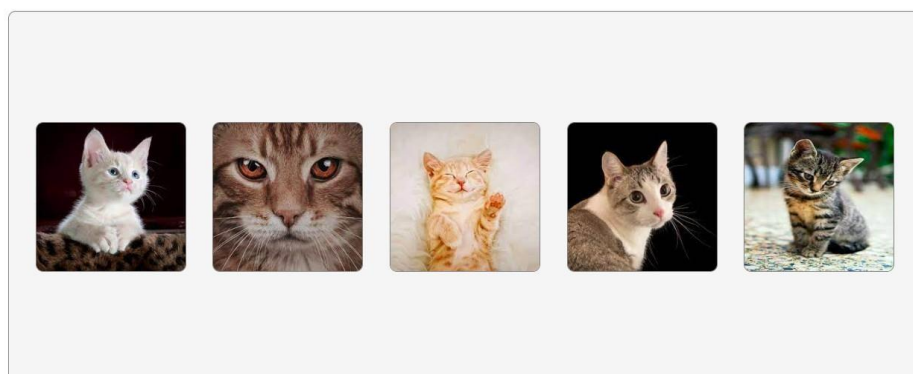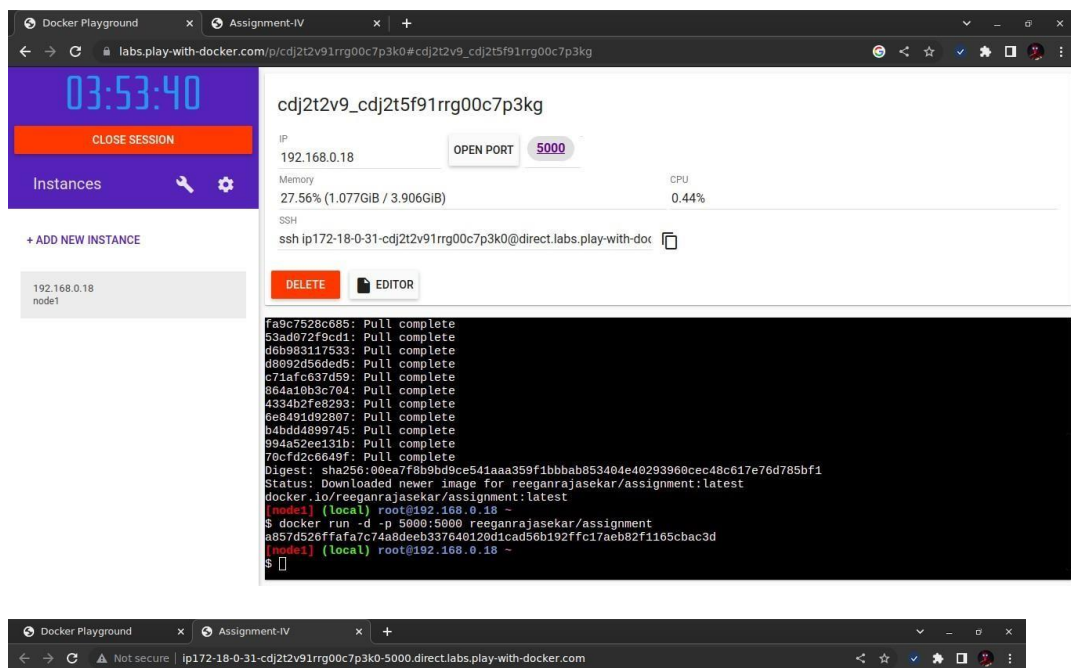
Container Registry

Quick start

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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≡ Workloads › Pods

Workloads N

Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets

Service

Ingresses N
Ingress Classes
Services N

Config and Storage

Config Maps N

CPU Usage

CPU (cores)

0

14:50 14:51 14:52 14:53 14:54 14:55 14:56 14:57 14:58 14:59 15:00 15:01 15:02

Memory Usage

Memory (bytes)

0 Mi

14:50 14:51 14:52 14:53 14:54 14:55 14:56 14:57 14:58 14:59 15:00 15:01 15:02

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 minute ago
●	assignment4-55cd499756-6ml2n	Show all	Show all	10.144.194.84	Running	0	1.00m	19.39Mi	17 minute ago
●	assignment4-55cd499756-hl58f	Show all	Show all	10.144.194.84	Running	0	1.00m	19.44Mi	17 minute ago

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≡ Workloads

Workloads N

Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets

Service

Ingresses N
Ingress Classes
Services N

Config and Storage

Config Maps N

Workload Status

Running: 1

Deployments

Running: 5

Pods

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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