

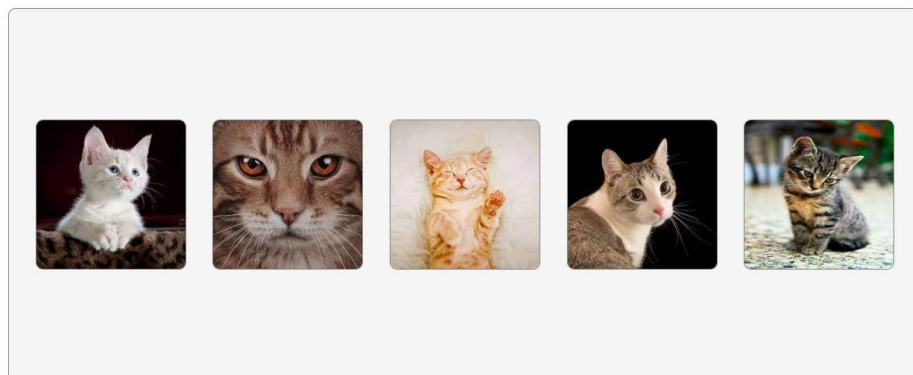
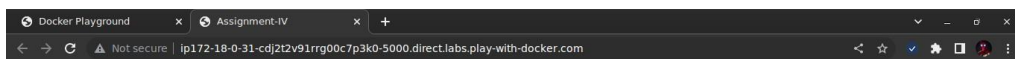
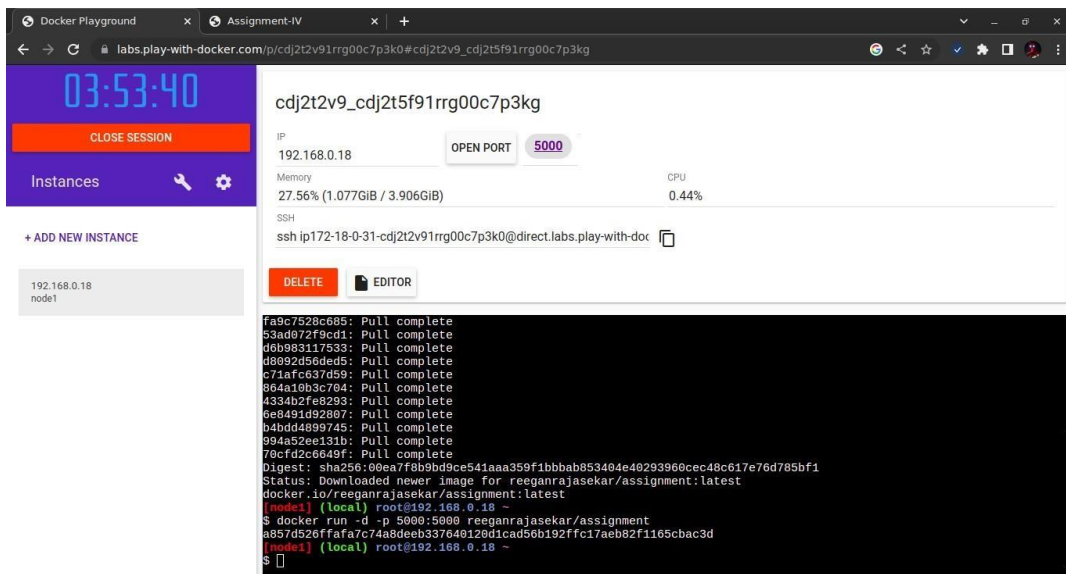
Assignment -4

IBM Cloud - Docker - Kubernetes

| | |
|---------------------|------------------|
| Assignment Date | 04 November 2022 |
| Student Name | Sudhagar P |
| Student Roll Number | 610519104100 |
| 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 +

| <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

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 |
|------------------------------|----------|----------|---------------|---------|----------|-------------------|----------------------|----------------|
| assignment4-55cd499756-5mnzm | 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 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

Running: 1

Deployments

Running: 5

Pods

Container Registry

Quick start

Namespaces 1

Repositories 1

Images 1

Trash 0

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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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