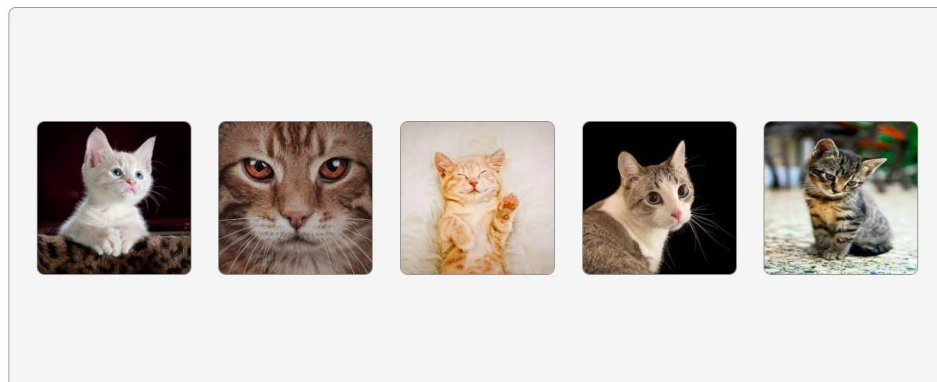
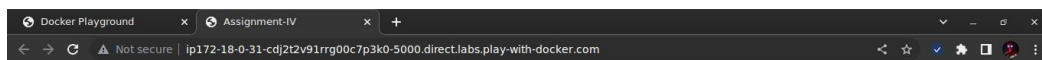
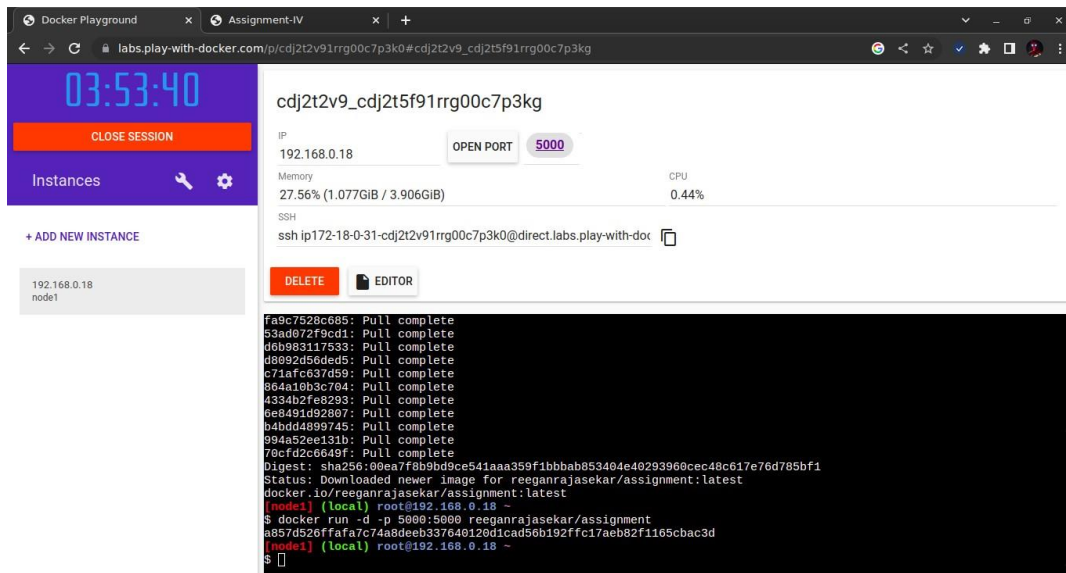


Assignment -4
IBM Cloud - Docker -
Kubernetes

| | |
|---------------------|-----------------|
| Assignment Date | 21 October 2022 |
| Student Name | Harish |
| Student Roll Number | 610519104036 |
| 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 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 no deport.



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 | : |

Items per page: 25

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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 |
|--|------------------------------|----------|----------|---------------|---------|----------|-------------------|----------------------|----------------|
| | assignment4-55cd499756-5mnmz | 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

Cron Jobs

Daemon Sets

Deployments

Jobs

Pods

Replica Sets

Replication Controllers

Stateful Sets

Service

Ingresses1

Ingress Classes

Services1

Config and Storage

Config Maps1

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.lcr.io/assignment_4/assignment_4 | | 1 | | 1 day ago | : |

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