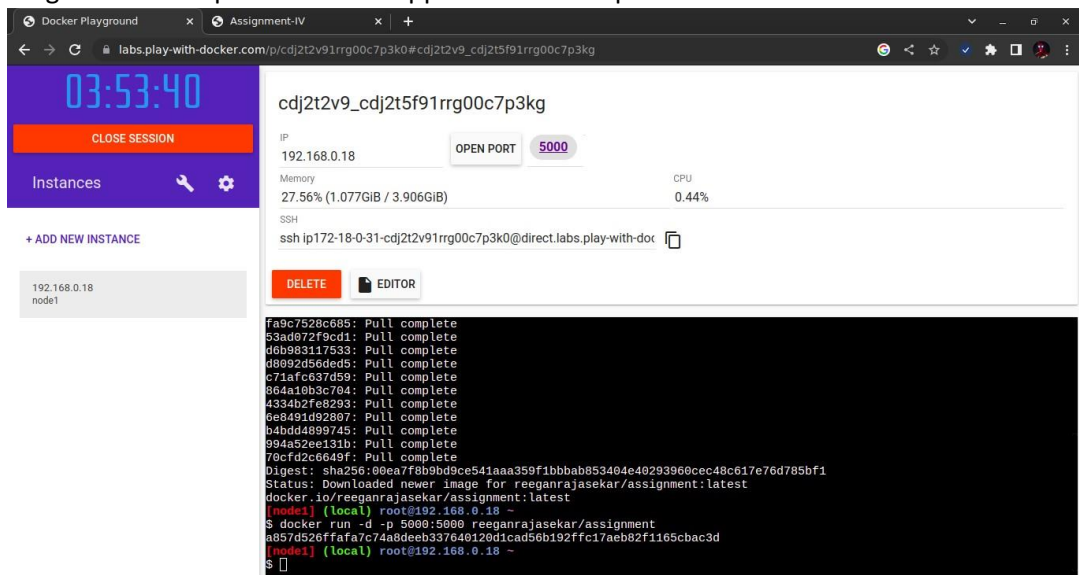


**Assignment -4 IBM Cloud -
Docker - Kubernetes**

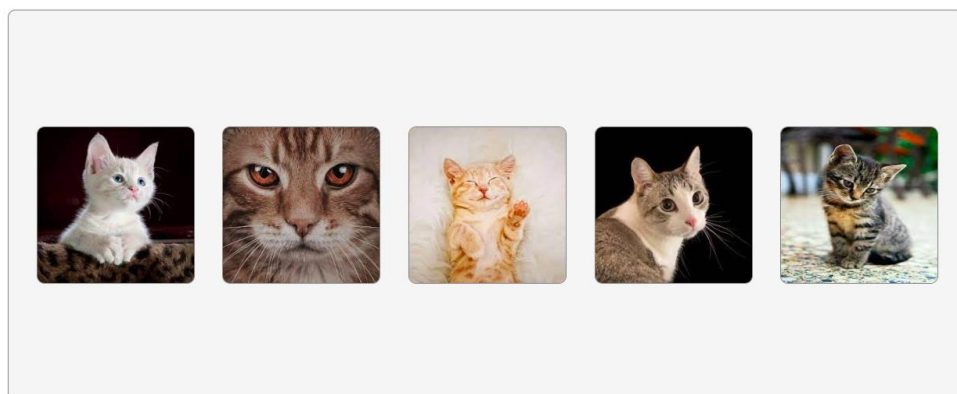
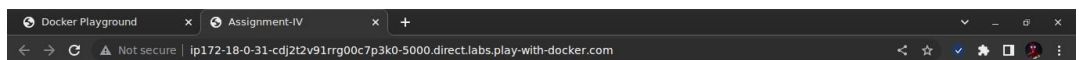
Assignment Date	21 October 2022
Student Name	B. Kamalesh
Student Roll Number	610519104048
Maximum Marks	2 Marks

Question:

1. Pull an Image from docker hub and run it in docker playground.
2. Create a dockerfile 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 nodeport.



The screenshot shows the Docker Playground interface. On the left, there's a sidebar with a clock showing 03:53:40, a 'CLOSE SESSION' button, and a list of instances. The main area displays details for a container named 'cdj2t2v9_cdj2t5f91rrg00c7p3kg'. It shows the IP address 192.168.0.18, an 'OPEN PORT' button set to 5000, memory usage at 27.56%, and CPU usage at 0.44%. Below this, there's an SSH command and buttons for 'DELETE' and 'EDITOR'. At the bottom, a terminal window shows the output of 'docker pull' and 'docker run' commands, indicating that the image 'reeganrajasekar/assignment:latest' has been successfully pulled and is now running on the host.



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	

Items per page: 25 1-1 of 1 item 1 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
assignment4-55cd499756-5mnmz	Show all	Show all	10.144.194.84	Running	0	1.30m	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-hi58f	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

Clusters / assignment Normal Expires in 30 days Add tags

Help Kubernetes dashboard Actions...

Overview

Worker nodes

Worker pools

DevOps New

Expires in 30 days: Be sure to back up your data, your cluster will be deleted in 30 days. To access the full capabilities of the service, try out a standard cluster.

Node status 1 of 1 Normal Details

Add-on status 0 of 0 Normal Details

Master status Normal Docs

Ingress status Unknown Docs

Details

Cluster ID cjd241sf08n3dac113fg

Version 1.24.7_1542

Infrastructure Classic

Zones Milan 01

Created 05/11/2022, 14:14

Resource group Default

Image security enforcement Enable