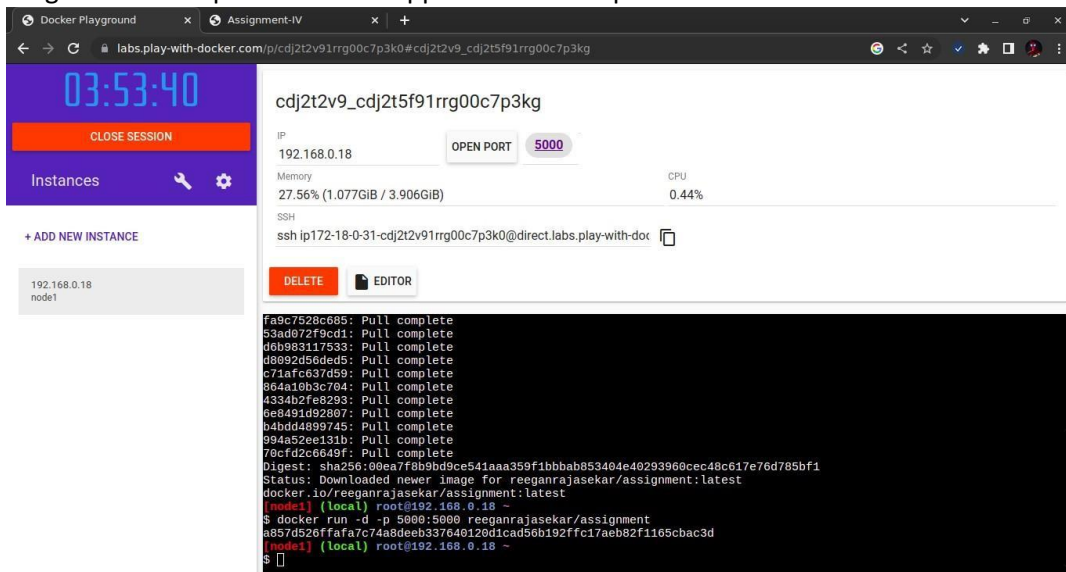


Assignment -4 IBM Cloud - Docker - Kubernetes

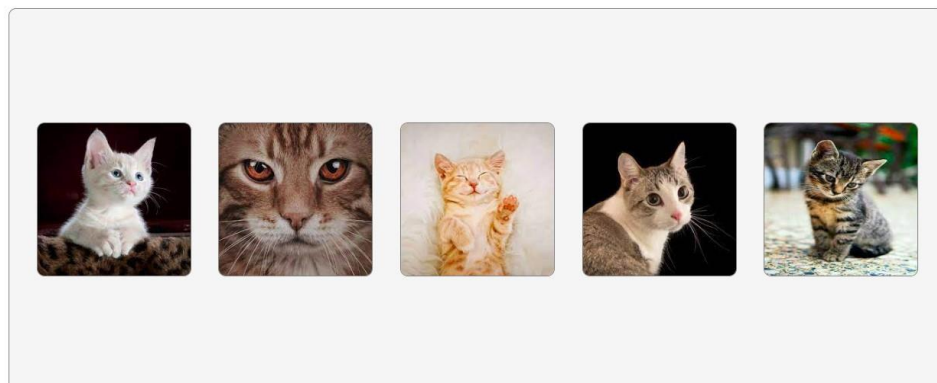
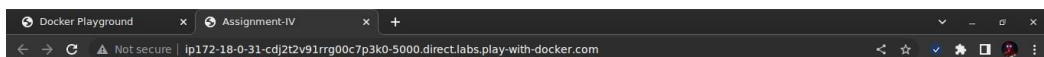
Assignment Date	9 October 2022
Student Name	T. Arun Kumar
Student Roll Number	610519104007
Maximum Marks	2 Marks

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. One instance, '192.168.0.18 node1', is listed. The main area displays details for the selected instance 'cdj2t2v9_cdj2t5f91rrg00c7p3kg'. It shows the IP address 192.168.0.18, an 'OPEN PORT' button set to 5000, memory usage at 27.56% (1.077GiB / 3.906GiB), and CPU usage at 0.44%. An SSH command is provided: 'ssh ip172-18-0-31-cdj2t2v91rrg00c7p3k0@direct.labs.play-with-docker.com'. Below this, there's a 'DELETE' button and an 'EDITOR' button. The bottom section shows a terminal output with a list of Docker image pull logs, all marked as 'Pull complete'. The last line of the terminal shows a successful Docker run command: '\$ docker run -d -p 5000:5000 reeganrajasekar/assignment:latest'.



Container Registry

Quick start

Namespaces

Repositories

Images

Trash

Settings

Namespaces

Tokyo

Resourcegroup: Filter...

Q Search

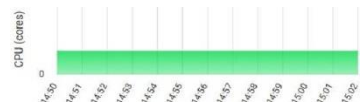
Create +

D	Name	Resource group	Repository count	Image count	Retention policy
0	D :: assignment_4	Default			Retain all images
Repository			Image count	Last updated	
'19	jp.icr.io/assignment_4/assignment_4			1dayago	
Itemsperpage: 25 v 1-loffitem					1 v 1offpage

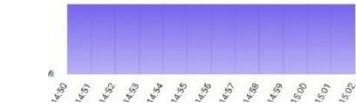
Workloads > Pods

- Workloads N
- Cron Jobs
- Daemon Sets
- Deployments
- Jobs
- Pods
- Replica Sets
- Replication Controllers
- StatefulSets
- Service
- Ingresses N
- Ingress Classes
- Services N
- Config and Storage
- ConfigMaps

CPU Usage



Memory Usage



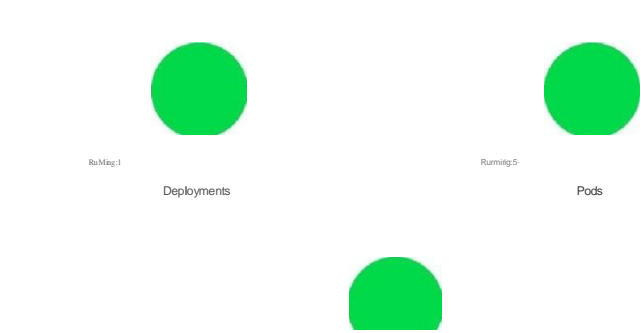
Pods

Name	Images	Labels	Node	Status	Restarts	CPU Usage (res)	Usage	Created At
assignment4-55cd499756-5mnmz	Show all	Show all	10.144.194.84	Running	0			JiminVL <90
assignment4-55cd499756-6m12n	Show all	Show	10.144.194.84	Running	0			Uminvl <90
assignment4-55cd499756-8l58f	Show all	Show all	10.144.194.84	Running				JiminVL <90

Workloads

- Workloads N
- Cron Jobs
- Daemon Sets
- Deployments
- Jobs
- Pods
- Replica Sets
- Replication Controllers
- StatefulSets
- Service
- Ingresses N
- Ingress Classes
- Services N
- Config and Storage
- ConfigMaps
- Cluster

Workload Status



@assignment

Overview

- Workerrades
- Worker pools
- DeVops

ExpiremJodlys Secure backup found... To access the full cluster...

1 of 1

0 of 0

Normal

Unknown

Details

cdj241..f08n3dac113tr	124.7_1542	Classic	Milan01
05/11/2022, 14:14	Resource group Default	Image security (c) cement	Enable