

Assignment -4
IBM Cloud - Docker - Kubernetes

Assignment Date	21 October 2022
Student Name	S.Lakshmanan
Student Roll Number	737819ITR042
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.

← → ↻ ⚠ Not secure | ip172-18-0-31-cdj2t2v91rrg00c7p3k0-5000.direct.labs.play-with-docker.com < ☆ ✓ ⚙ □ 🔍 ⋮



cdj2t2v9_cdj2t5f91rrg00c7p3kg

IP

192.168.0.18

OPEN PORT

5000

Memory

27.56% (1.077GiB / 3.906GiB)

CPU

0.44%

SSH

ssh ip172-18-0-31-cdj2t2v91rrg00c7p3k0@direct.labs.play-with-dox

DELETE

EDITOR

```
Fa8c7528c885: Pull complete
53ad072f9cd1: Pull complete
d6b983117533: Pull complete
d8092d5ded5: Pull complete
c71afc637d59: Pull complete
864a19b3c704: Pull complete
433ab2fe8293: Pull complete
6e8491d92807: Pull complete
b4bdd4899745: Pull complete
994a52ee131b: Pull complete
78cf2c6649f: Pull complete
Digest: sha256:08ea7f8b9bd9ce541aaa359f1bbbab853404e40293960cec48c617e76d785bf1
Status: Downloaded newer image for reeganrajasekar/assignment:latest
docker.io/reeganrajasekar/assignment:latest
[node1] (local) root@192.168.0.18 ~
$ docker run -d -p 5000:5000 reeganrajasekar/assignment
a857d526ffafa7c74a8deeb337640120d1cad56b192ffc17aeb82f1165cbac3d
[node1] (local) root@192.168.0.18 ~
$
```

Container Registry

Quick start

Namespaces

Repositories

Images

Trash

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

Cron Jobs

Daemon Sets

Deployments

Jobs

Pods

Replica Sets

Replication Controllers

Stateful Sets

Service

Ingresses

Ingress Classes

Services

Config and Storage

Config Maps

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	1.30m	19.39Mi	17 minutes ago
assignment4-55cd499756-hi58f	Show all	Show all	10.144.194.84	Running	0	1.20m	19.44Mi	17 minutes ago



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 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