

## ASSIGNMENT - 4

Assignment Date	04 November 2022
Student Name	Karan B
Team ID	PNT2022TMID22008
Maximum Marks	2 Marks

### Question 1:

Pull an Image from docker hub and run it in docker playground.

```
PS C:\Windows\system32> docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
Digest: sha256:e18f0a777aefabe047a671ab3ec3eed05414477c951ab1a6f352a06974245fe7
Status: Image is up to date for hello-world:latest
docker.io/library/hello-world:latest
PS C:\Windows\system32>
```

### Question 2:

Create a docker file for the jobportal application and deploy it in Docker desktop application.

FROM helloworld:sk

WORKDIR ~/Desktop/

ADD . helloworld/

WORKDIR~/Desktop/IBMproj

RUN pip install -r requirements

RUN chmod +x app.sh

CMD ["/bin/sh", "app.sh"]

### Question 3:

Create a IBM container registry and deploy helloworld app or jobportalapp.

```
PS C:\WINDOWS\system32> docker tag hello-world icr.io/67890ns/hello-world
PS C:\WINDOWS\system32> docker push icr.io/67890ns/hello-world
Using default tag: latest
The push refers to repository [icr.io/67890ns/hello-world]
e07ee1baac5f: Mounted from 54321ns/hello-world
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
PS C:\WINDOWS\system32> ibmcloud cr image-list
Listing images...
```

### Question 4:

Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.

IBM Cloud

Search resources and products...

Clusters / mycluster-free Preparing master, workers... Expires in 30 days Add tags

Overview

**Worker nodes**

Worker pools

DevOps New

Pool: Filter... Search

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
00000095	Provision pending	default	Milan 01		--> 1.24.6_1541	

Items per page: 25 1-1 of 1 item 1 1 of 1 page