

## ASSIGNMENT- 4

Assignment Date	08 November 2022
Student Name	Aswin mon.M
Register Number	961819104021
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:latest
WORKDIR ~/Desktop/
ADD . helloworld/
WORKDIR ~/Desktop/htmlfile
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.

```
Administrator: Windows PowerShell (x86)
OK
PS C:\Windows\system32> docker tag hello-world icr.io/06091ns/hello-world
PS C:\Windows\system32> docker push icr.io/06091ns/hello-world
Using default tag: latest
The push refers to repository [icr.io/06091ns/hello-world]
e07ee1baac5f: Mounted from 12345ns/hello-world
latest: digest: sha256:f54a58bc1aac5ea1a25d796ae155dc228b3f0e11d046ae276b39c4bf2f13d8c4 size: 525
PS C:\Windows\system32>
```

### 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

Clusters /

mycluster-free

Preparing master, workers...

Expires in 30 days

Add tags

Help

Kubernetes dashboard

Actions...

Overview

Worker nodes

Worker pools

DevOps New

Search

<input type="checkbox"/>	Name	Status	Worker pool	Zone	Private IP	Public IP
<input checked="" type="checkbox"/>	0000006f	<div>Provision pendin...</div>	default	Milan 01		

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