

ASSIGNMENT- 4

Assignment Date	01 November 2022
Student Name	Akhil.r.k
Register Number	961819104008
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/
```

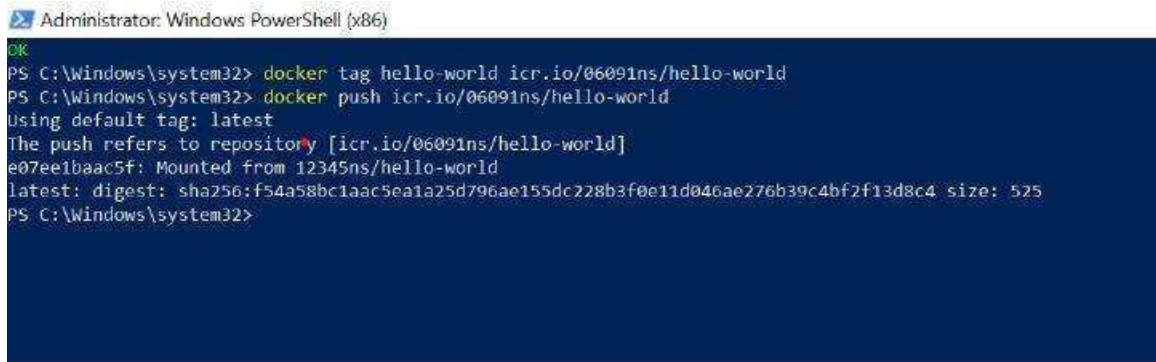
```
WORKDIR ~/Desktop/htmlfile
```

```
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.

Install Tools | Assignments | IBM-EPB/91 | SendGrid | Untitled - Fig | Arima | mycluster-free

cloud.ibm.com/kubernetes/clusters/cdcd80f0931562974g0/nodes

IBM Cloud

Search resources and products...

Catalog

Manage

Shijonida JVS's Account

Clusters / mycluster-free

Preparing master, workers... Expires in 30 days Add tags

Help Kubernetes dashboard Actions...

Overview

Worker nodes

Worker pools

DevOps New

Search

Name	Status	Worker pool	Zone	Private IP	Public IP
ib00000099	Provision pending	default	Milan 01		

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

Help

Log in to your cluster

Deploy your app

Expose your app

Add storage to your app

Connect integrations

Install add-ons

Troubleshoot

Type here to search

31°C 07-11-2022