

ASSIGNMENT-4

PROJECT NAME :NEWS TRACKER APPLICATION

TEAM ID :PNT2022TMID40259

REG NO :513219104001

NAME :E.ABIRAMI

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>
```

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

FROM

helloworld:lates

t WORKDIR

~/Desktop/

ADD .

helloworld/

~/Desktop/htmlfile

```
RUN pip install -r
```

requirements RUN

```
chmod +x app.sh
```

CMD

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

3.Create a IBM container registry and deploy helloworld app or job portal app

```
C:\Windows\system32> docker tag hello-world lr.in/11111/hello-world
C:\Windows\system32> docker push lr.in/11111/hello-world
Using default tag: latest
The push refers to repository [lr.in/11111/hello-world]
a078ba6c3c: manifest for lr.in/11111/hello-world
latest: digest: sha256:f5a08b1a6c3c329596ae70dc2285f70e11886a03833c0bf7f1adce size: 525
C:\Windows\system32>
```

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.

mycluster-free

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

Overview

Worker nodes

Worker pools

DevOps

Name	Status	Worker pool	Zone	Private IP	Public IP	Version
00000000	Provisioning pending	default	us-east-1a			1.24.6-1541

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Help

- Log in to your cluster
- Deploy your app
- Expose your app
- Add storage to your app
- Connect integrations
- Install add-ons
- Troubleshoot