# **ASSIGNMENT - 4**

# **DOCKER DESKTOP (Kubernetes)**

Team ID	PNT2022TMID37215
Project Name	Smart Fashion Recommender Application
Maximum Marks	2 Marks

# **Question 1:**

Pull an image from docker hub and run it on docker playground.

docker pull registry

docker run -d -p 9000:9000 -docker -privileged -v/var/run/docker.sock:/var/run/docker.sock registry

# Select Command Prompt

```
Microsoft Windows [Version 10.0.22000.1219]

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C:\Users\bosei>docker pull registry

Using default tag: latest
ce14a6258f37: Download complete
cc6393207bf9: Download complete
81c944c2288b: Download complete
21df229223d2: Download complete
626897ccab21: Download complete
1ed0fc8a6161: Download complete
c41ae7ad2b39: Download complete
docker.io/library/registry:latest
```

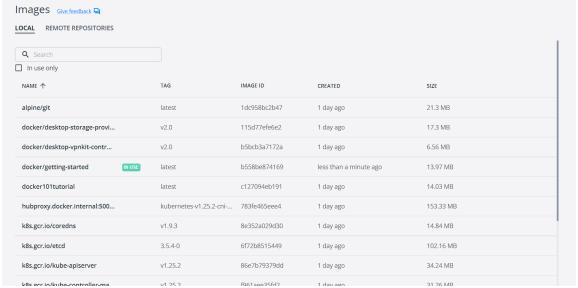
```
C:\Users\bosei>docker run -d -p 80:80 docker/getting-started
Unable to find image 'docker/getting-started:latest' locally
b558be874169: Download complete
3a1b838d7761: Download complete
cb90f98fd791: Download complete
4071be97c256: Download complete
5867cba5fcbd: Download complete
79b586f1a54b: Download complete
0c9732f525d6: Download complete
bc19f3e8eeb1: Download complete
bc19f3e8eeb1: Download complete
4b639e65cb3b: Download complete
061ed9e2b976: Download complete
8b501642a5bb4959526aa3d43f7e0633275802cc8dfb644ee23e13e4aba5ba30
C:\Users\bosei>
```



# **Question 2:**

Create a docker file for the job portal app or hello world app and deploy it indocker desktop app.





# **Question 3:**

Create an IBM container registry and deploy helloworld app or job portalapp.



# **Question 4:**

Create a kubernetes cluster in IBM cloud and deploy helloworld imageor job portal image and also expose the same app to run in nodeport.

```
apiVersion:
v1kind:
Service
metadata:
      name: hello-world
  deploymentspec:
      ports:
      - port: 5000
         targetPort:
      5000selector: app:
         hello-world
  apiVersion:
  apps/v1kind:
  Deployment
  metadata:
      name: hello-world
  deploymentspec:
      replic
      as: 1
      select
      or:
         matchLabels: app:
           hello
      worldtemplate:
        meta
           da
           ta
           la
           be
           1s
              app: hello
         worldspec:
           containers:
           - name: hello-world
             image: au.icr.io/hello-world-app/hello
             worldimagePullPolicy: Always
             ports:
             - containerPort: 5000
```