

# ASSIGNMENT 4

Team ID : PNT2022TMID04437

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

```
C:\Users\Pranav> docker run --name app -it nginx:latest
Microsoft Windows [Version 10.0.22000.1119]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Pranav> docker images
REPOSITORY          TAG             IMAGE ID       CREATED        SIZE
docker/getting-started latest          cb999847791   7 months ago  28.8MB

C:\Users\Pranav> docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
cb999847791: Pull complete
7f689474e12: Pull complete
f88c21813328: Pull complete
bfa2e844926: Pull complete
cb999847791: Pull complete
nginx: Pull complete
Digest: sha256:96bc25d4a2322186f9d48a1d33d77570154361a8d8a690d01154d3787
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest

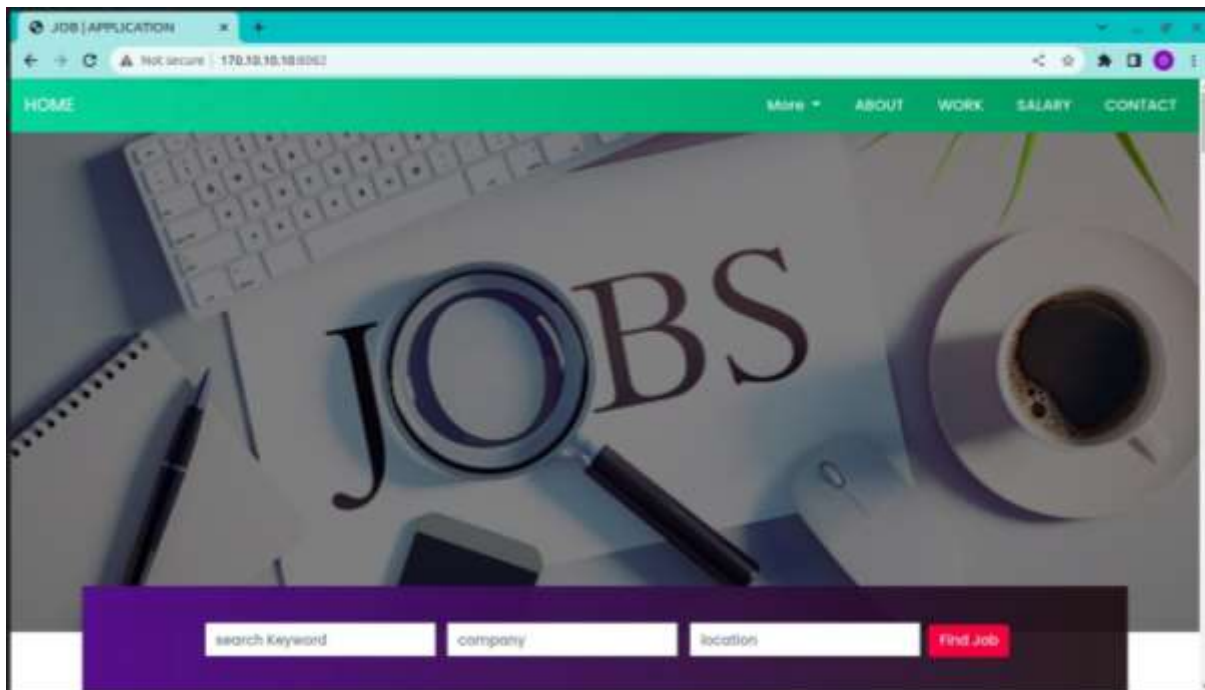
C:\Users\Pranav> docker images
REPOSITORY          TAG             IMAGE ID       CREATED        SIZE
nginx               latest          f88c21813328   2 weeks ago   142MB
docker/getting-started latest          cb999847791   7 months ago  28.8MB

C:\Users\Pranav> docker run --name app -it nginx:latest
root@f88c21813328:/#
```

```
C:\Users\Pranav> docker ps
Microsoft Windows [Version 10.0.22000.1119]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Pranav> docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS    NAMES
f88c21813328  nginx    "/docker-entrypoint. ..." 3 minutes ago  Up 3 minutes  80/tcp   app

C:\Users\Pranav>
```



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

```

Command Prompt

Password>
Authenticating...
OK

Targeted account PREETHI S's Account (2af4c9aba34c4d1db3e2de70df5fcb54)

Select a region (or press enter to skip):
1. au-syd
2. in-che
3. jp-osa
4. jp-tok
5. kr-sao
6. eu-da
7. eu-gb
8. ca-tor
9. us-south
10. us-east
11. br-sao
Enter a number> 4
Targeted region jp-tok

API endpoint: https://cloud.ibm.com
Region: jp-tok
User: preethi.19cse@kongu.edu
Account: PREETHI S's Account (2af4c9aba34c4d1db3e2de70df5fcb54)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:

C:\Users\rishi>
  
```

```
Command Prompt
Looking up 'container-service' from repository 'IBM Cloud'...
Plug-in 'container-service[kubernetes-service/ks] 1.0.459' found in repository 'IBM Cloud'
Attempting to download the binary file...
26.86 MiB / 26.86 MiB [=====] 100.00% 42s
26168192 bytes downloaded
Installing binary...
Plug-in 'container-service 1.0.459' was successfully installed into C:\Users\rishi\bluenix\plugins\container-service. Use 'ibmcloud plugin show container-service' to show its details.

C:\Users\rishi>ibmcloud plugin install container-registry
Looking up 'container-registry' from repository 'IBM Cloud'...
Plug-in 'container-registry[cr] 1.0.2' found in repository 'IBM Cloud'
Attempting to download the binary file...
11.90 MiB / 11.90 MiB [=====] 100.00% 12s
12476416 bytes downloaded
Installing binary...
Plug-in 'container-registry 1.0.2' was successfully installed into C:\Users\rishi\bluenix\plugins\container-registry. Use 'ibmcloud plugin show container-registry' to show its details.

C:\Users\rishi>ibmcloud plugin install observe-service
Looking up 'observe-service' from repository 'IBM Cloud'...
Plug-in 'observe-service 1.0.82' found in repository 'IBM Cloud'
Attempting to download the binary file...
19.38 MiB / 19.38 MiB [=====] 100.00% 53s
14824784 bytes downloaded
Installing binary...
Plug-in 'observe-service 1.0.82' was successfully installed into C:\Users\rishi\bluenix\plugins\observe-service. Use 'ibmcloud plugin show observe-service' to show its details.

C:\Users\rishi>ibmcloud plugin list
Listing installed plug-ins...

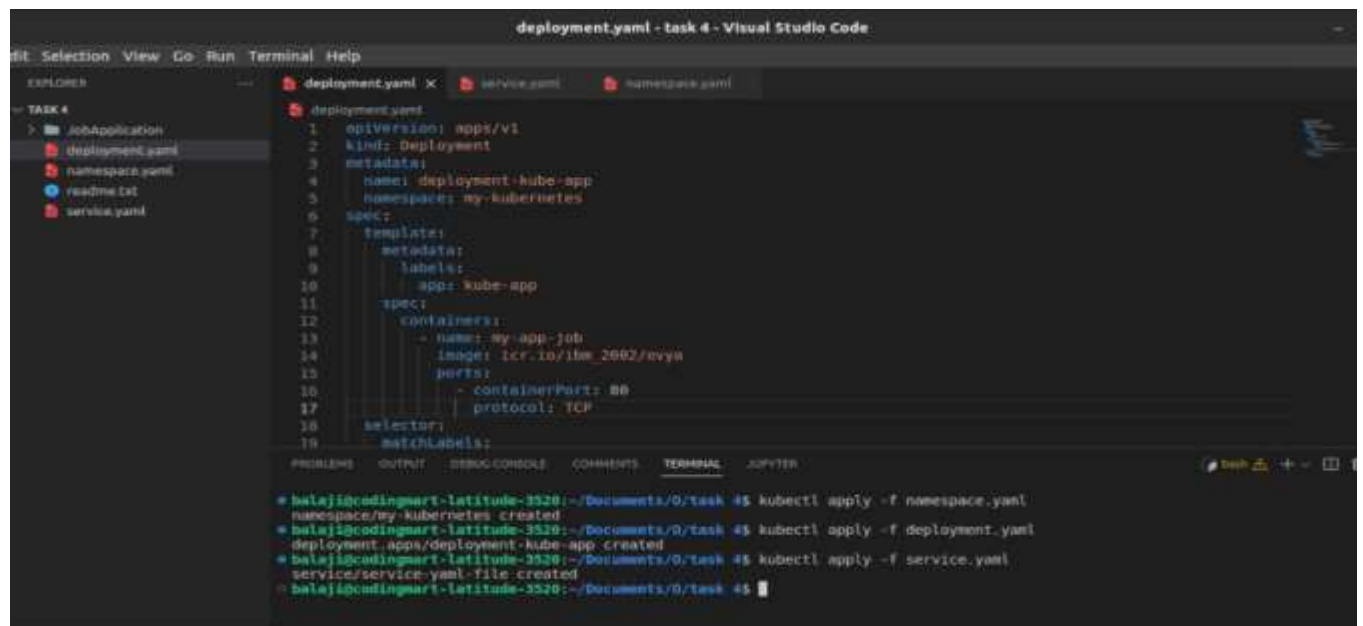
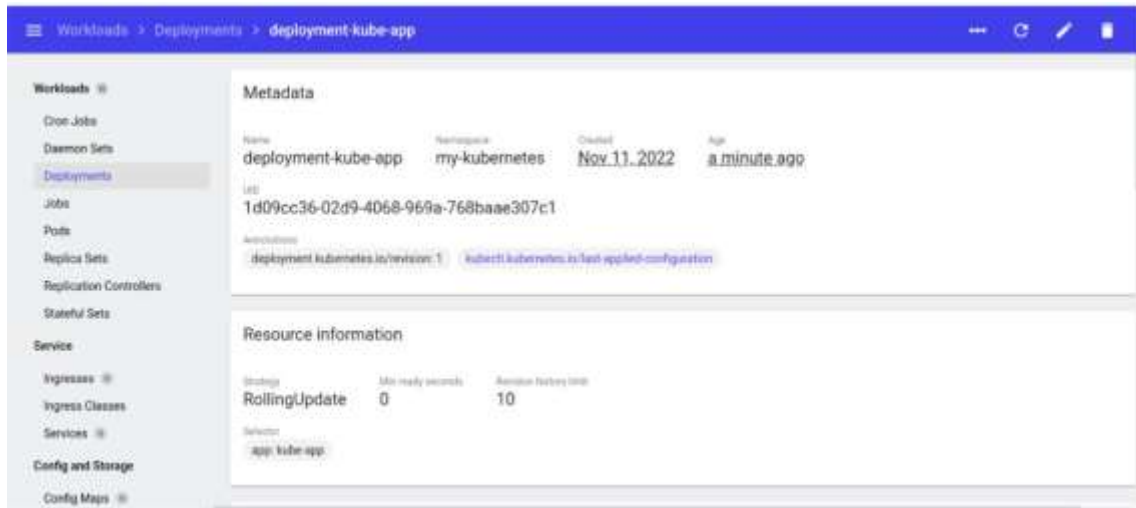
Plugin Name          Version   Status   Private endpoints supported
container-registry    1.0.2     true     true
container-service[kubernetes-service/ks] 1.0.459   false    false
observe-service[ob]   1.0.82    false    false
```

```
user@user-Latitude-3320: ~/Desktop/IBM/assignment-4/task 35 $ ibmcloud cr image-list
Listing images...

Repository            Tag      Digest          Namespace      Created      Size      Security status
icr.io/jobapplication/ibm-2022  latest  be3df843bbb5    jobapplication  33 minutes ago  45 MB      -

OK
user@user-Latitude-3320: ~/Desktop/IBM/assignment-4/task 35 $
```

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



## IBM CLOUD CONTAINER REGISTRY

