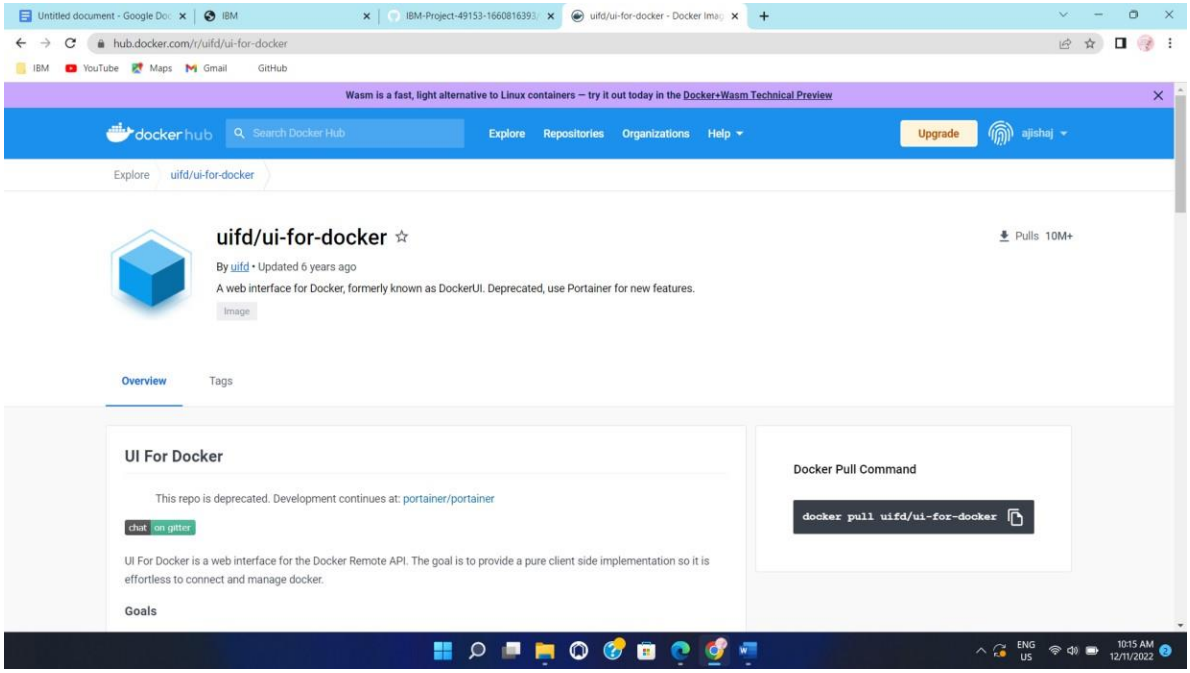
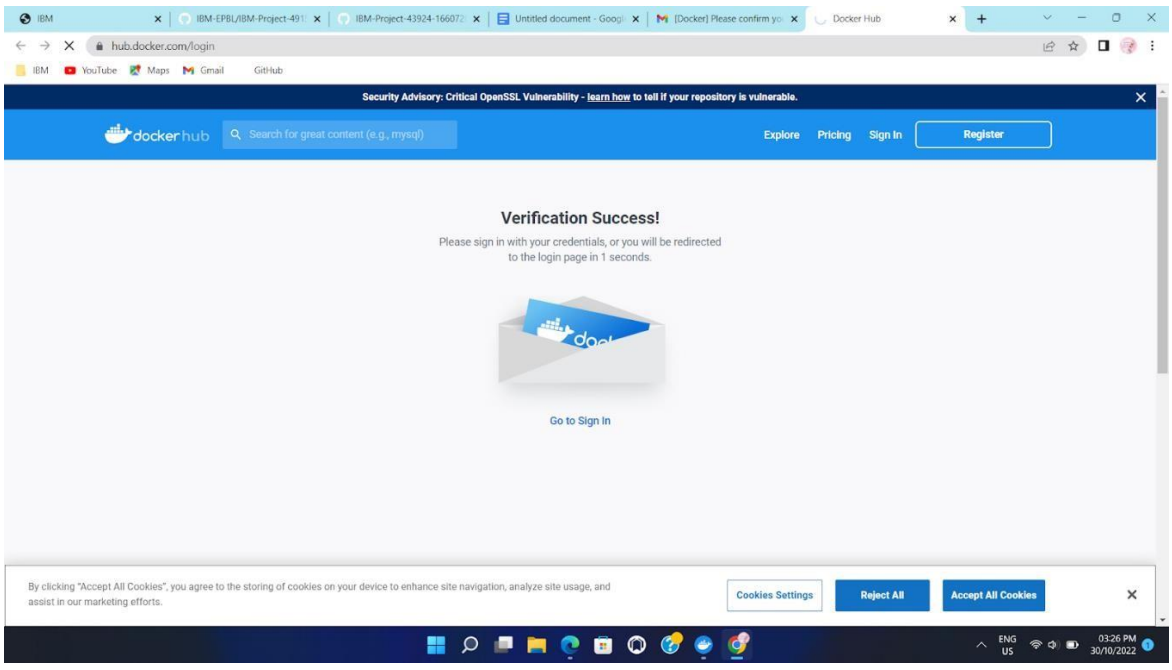
ASSIGNMENT 4

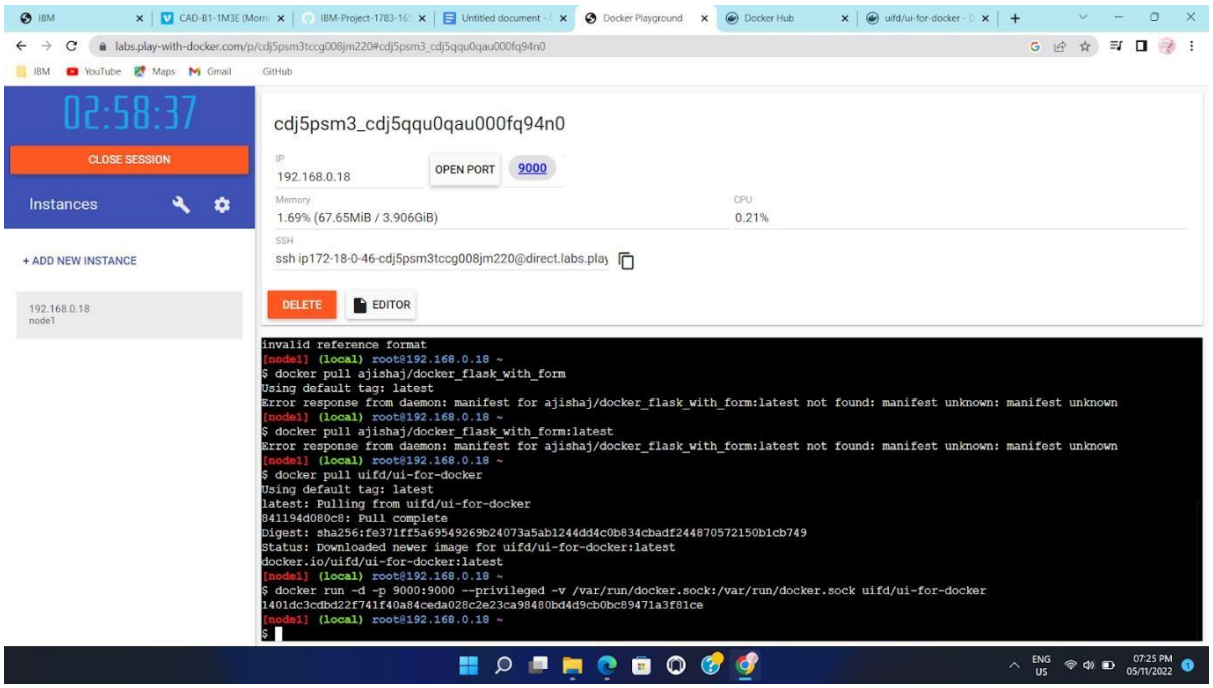
DOCKER AND KUBERNETS

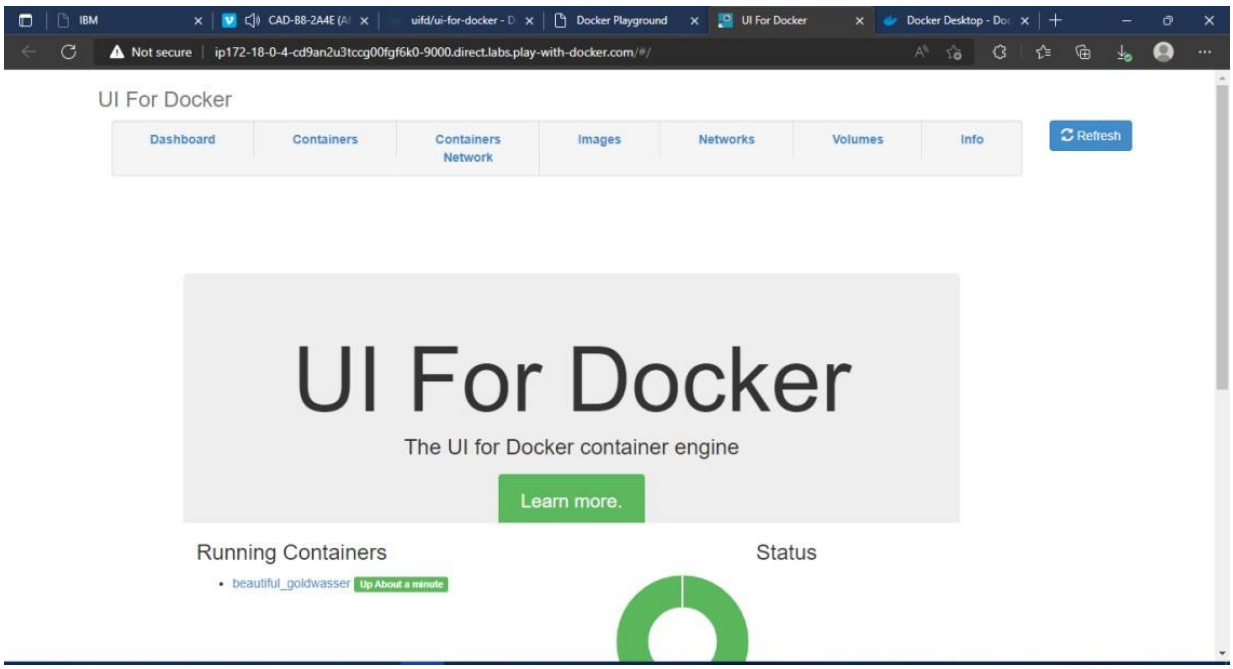
TEAM ID	PNT2022TMID50292
PROJECT NAME	Smart Fashion Recommender Application

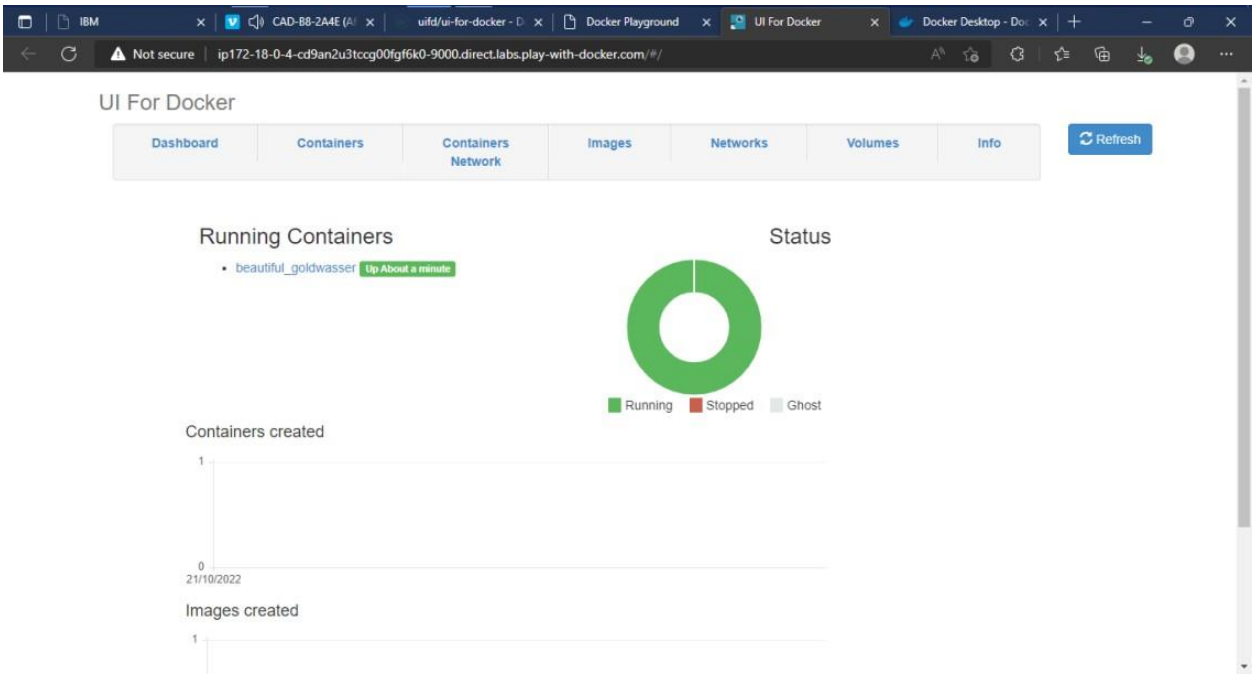
1) Pull an image from docker hub and run it in docker Playground



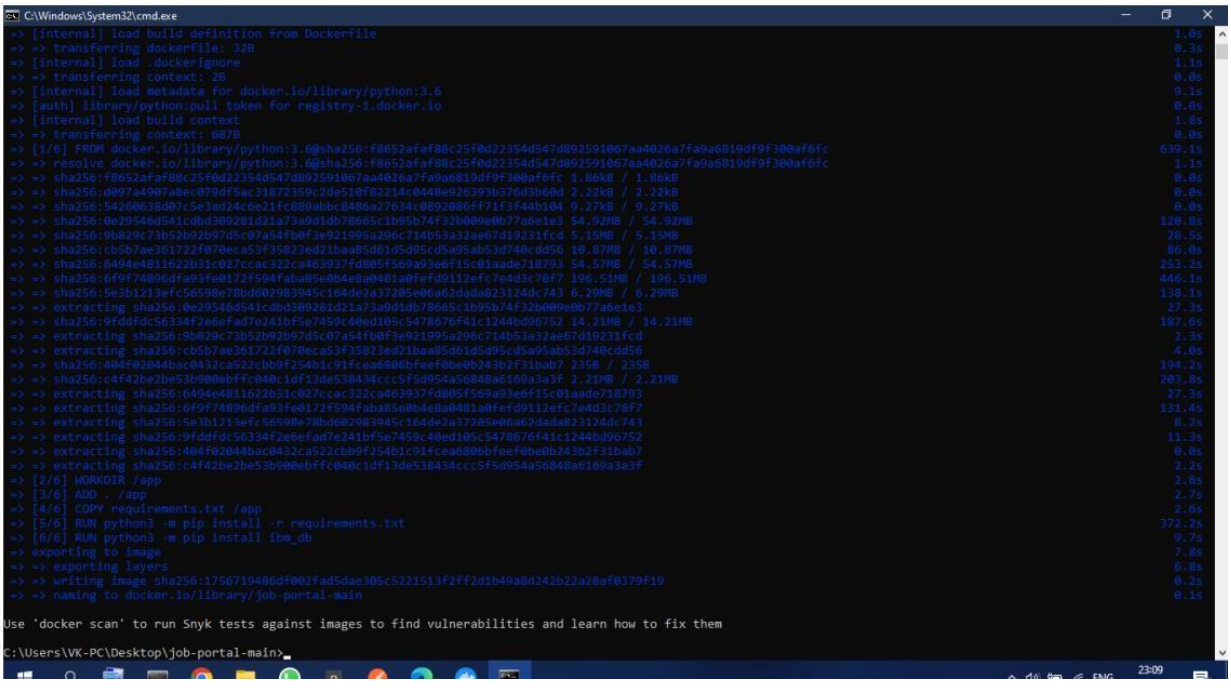


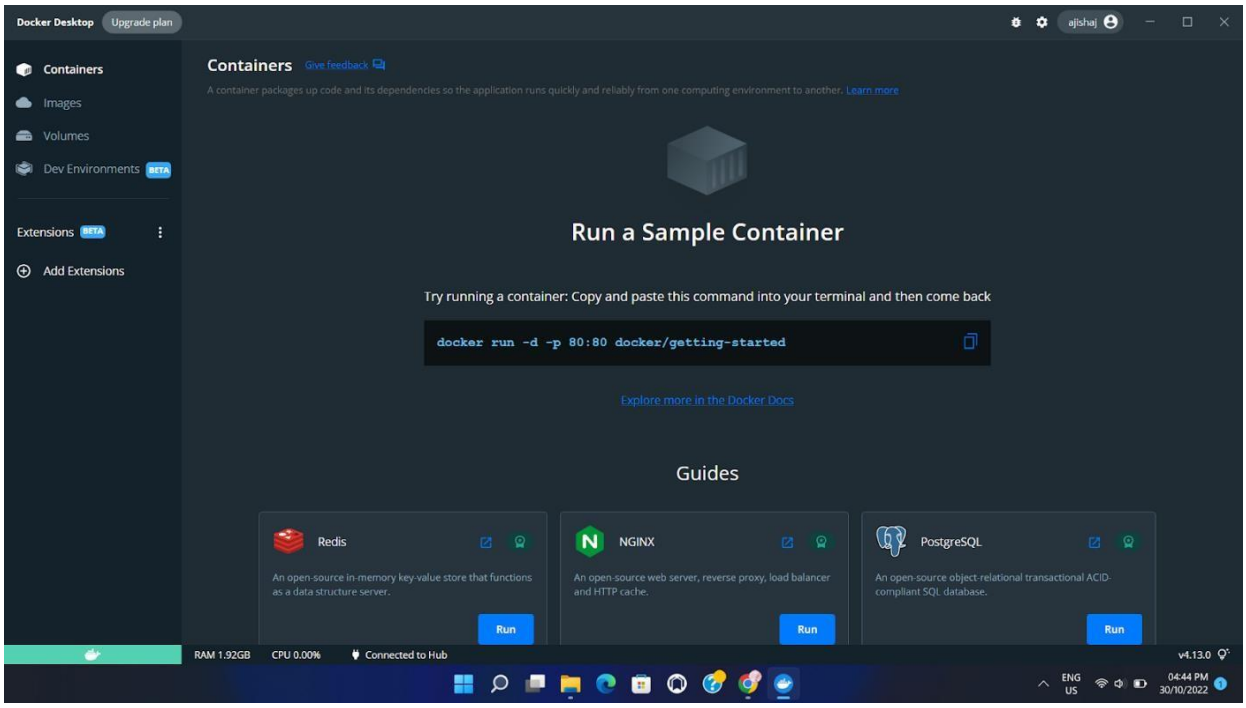

02:58:37
CLOSE SESSION
Instances
+ ADD NEW INSTANCE
192.168.0.18
node1
cdj5psm3_cdj5qqu0qau000fq94n0
IP
192.168.0.18
OPEN PORT
9000
Memory
1.69% (67.65MiB / 3.906GiB)
CPU
0.21%
SSH
DELETE
EDITOR
invalid reference format
[node1] (local) root@192.168.0.18 ~
$ docker pull ajishaj/docker_flask_with_form
Using default tag: latest
Error response from daemon: manifest for ajishaj/docker_flask_with_form:latest not found: manifest unknown: manifest unknown
[node1] (local) root@192.168.0.18 ~
$ docker pull ajishaj/docker_flask_with_form:latest
Error response from daemon: manifest for ajishaj/docker_flask_with_form:latest not found: manifest unknown: manifest unknown
[node1] (local) root@192.168.0.18 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
841194d080c8: Pull complete
Digest: sha256:fe371ff5a69549269b24073a5ab1244dd4c0b834cbadf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
[node1] (local) root@192.168.0.18 ~
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
1401dc3cdbd22f741f40a84ceda028c2e23ca98480bd4d9cb0bc89471a3f81ce
[node1] (local) root@192.168.0.18 ~
$

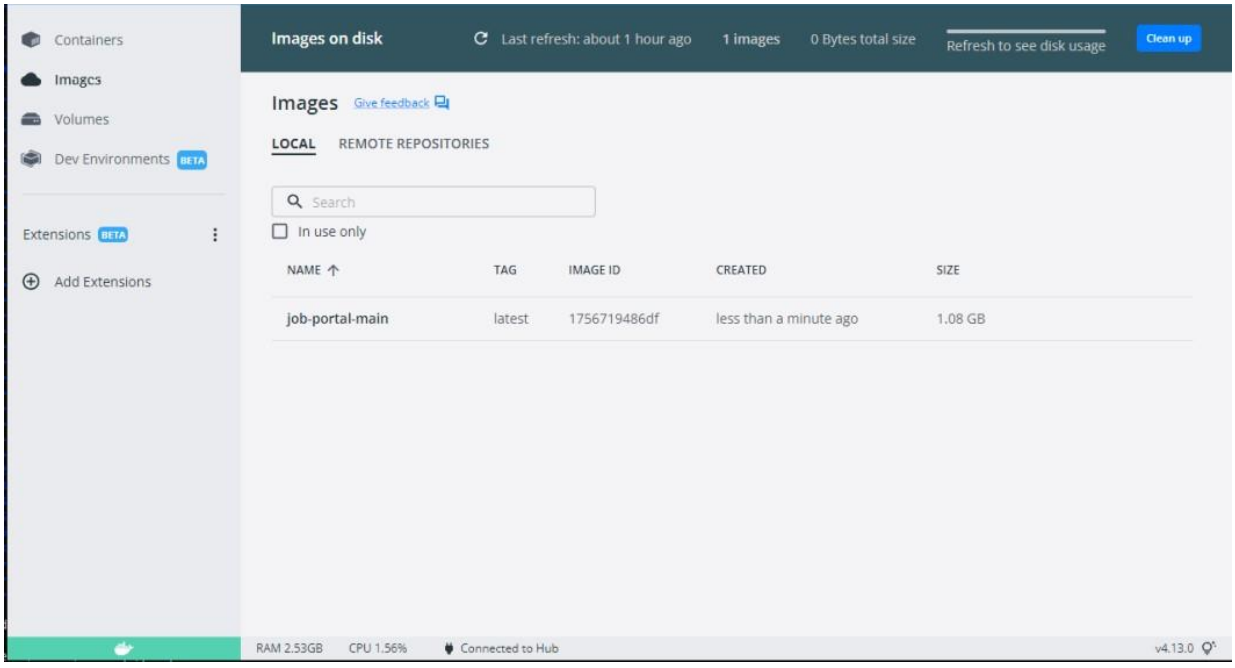

Not secure
ip172-18-0-4-cd9an2u3tccg00fgf6k0-9000.direct.labs.play-with-docker.com/#/
UI For Docker
Dashboard
Containers
Containers Network
Images
Networks
Volumes
Info
Refresh
UI For Docker
The UI for Docker container engine
Learn more.
Running Containers
beautiful_goldwasser
Up About a minute
Status



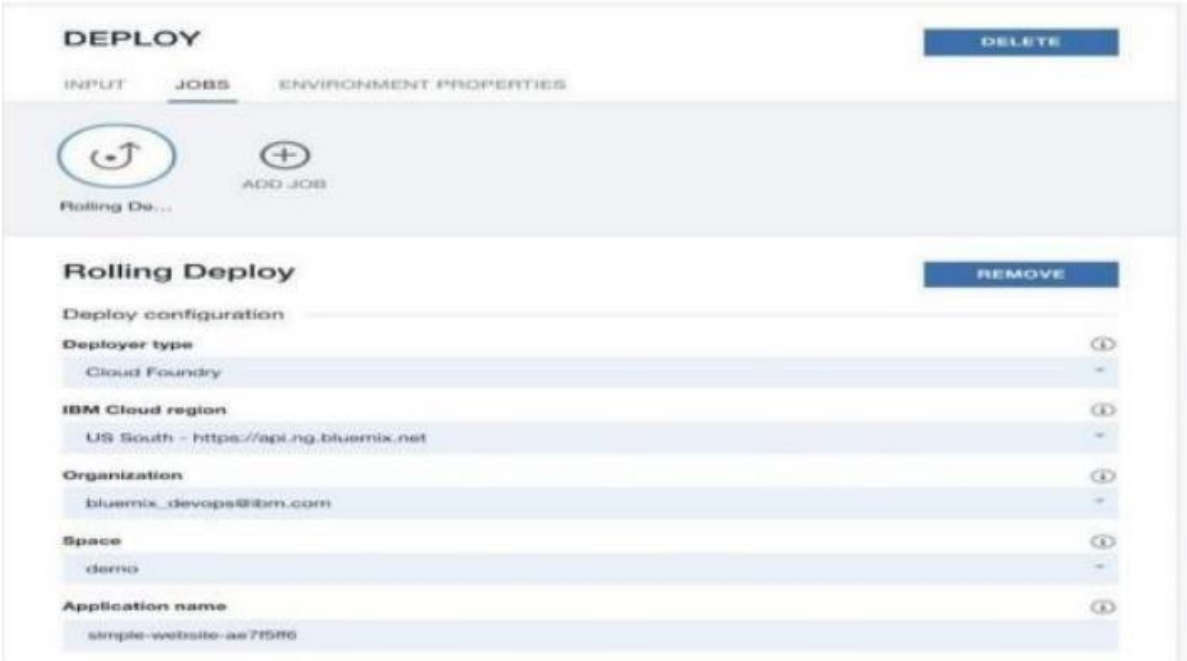
2)Create a docker file for the job portal application and deploy it in Docker desktop application




Docker Desktop
Upgrade plan
ajishaj
Containers
Images
Volumes
Dev Environments
BETA
Extensions
BETA
Add Extensions
Containers
Give feedback
A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more
Run a Sample Container
Try running a container: Copy and paste this command into your terminal and then come back
docker run -d -p 80:80 docker/getting-started
Explore more in the Docker Docs
Guides
Redis
An open-source in-memory key-value store that functions as a data structure server.
Run
NGINX
An open-source web server, reverse proxy, load balancer and HTTP cache.
Run
PostgreSQL
An open-source object-relational transactional ACID-compliant SQL database.
Run
RAM 1.92GB
CPU 0.00%
Connected to Hub
v4.13.0
ENG
US
04:44 PM
30/10/2022


Containers
Images
Volumes
Dev Environments
BETA
Extensions
BETA
Add Extensions
Images on disk
Last refresh: about 1 hour ago
1 images
0 Bytes total size
Refresh to see disk usage
Clean up
Images
Give feedback
LOCAL
REMOTE REPOSITORIES
Search
In use only
NAME
TAG
IMAGE ID
CREATED
SIZE
job-portal-main
latest
1756719486df
less than a minute ago
1.08 GB
RAM 2.53GB
CPU 1.56%
Connected to Hub
v4.13.0

3. Create a IBM container registry and deploy hello world app or job portal app:




```
{
  "ServiceId": "com.ibm.cloudoe.orion.client.deploy",
  "Params": {
    "Target": {
      "Url": "https://api.ng.bluemix.net",
      "Org": "bluemix_devops@ibm.com",
      "Space": "demo"
    },
    "Name": "simple-website-ae7f5ff6",
    "Instrumentation": {}
  },
  "Path": "manifest.yml",
  "Type": "Cloud Foundry"
}
```

4. Create a Kubernetes cluster in IMB cloud and deploy hello world image or job portal image and expose the same app to run node port