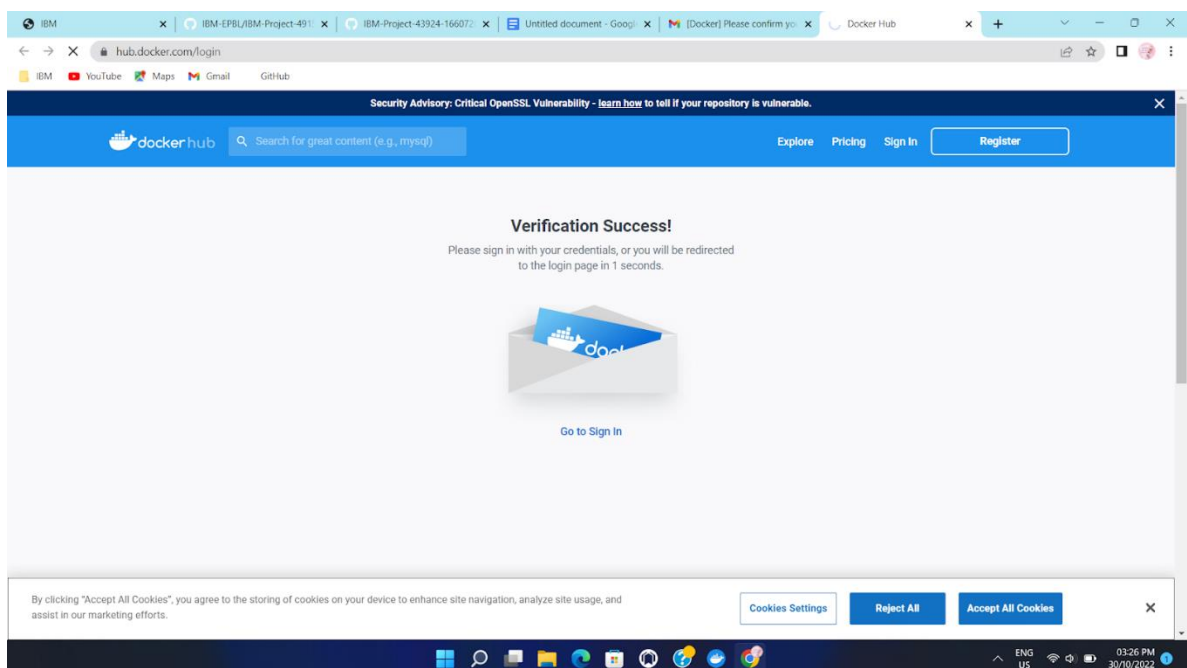
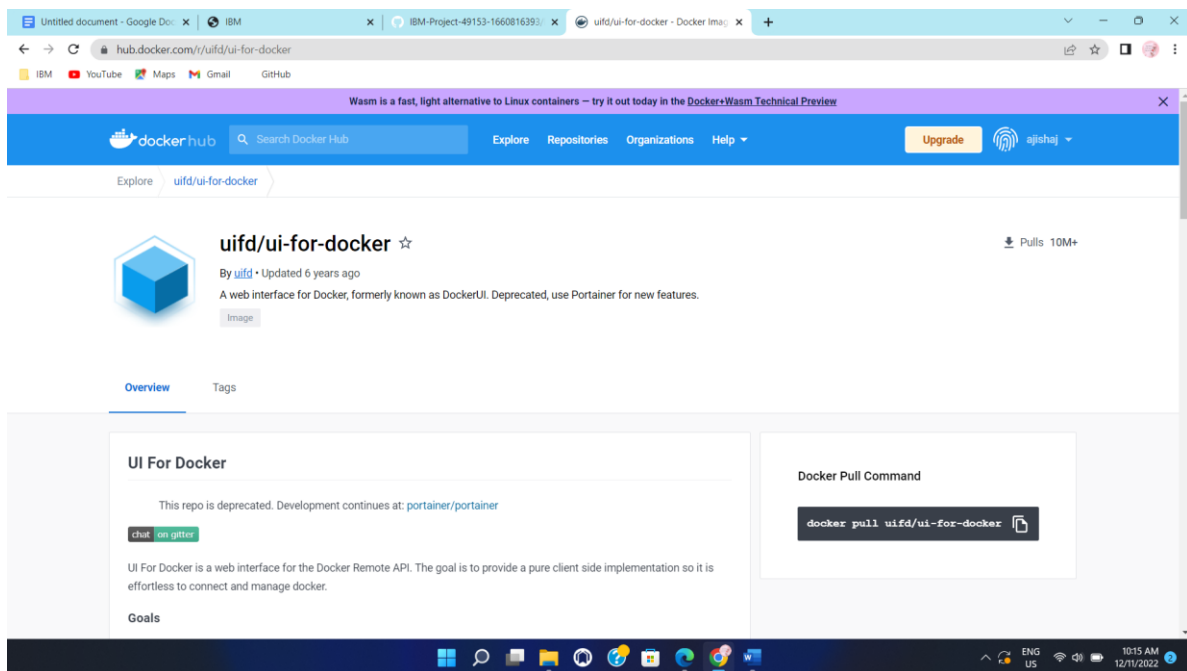


ASSIGNMENT 4

DOCKER AND KUBERNETS

TEAM ID	PNT2022TMID52257
PROJECT NAME	Smart Fashion Recommender Application
NAME	Ajisha.

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



IBM x CAD-B1-1M3E (Morn x IBM-Project-1783-16 x Untitled document x Docker Playground x Docker Hub x uifd/ui-for-docker x + -

labs.play-with-docker.com/p/cdj5psm3tccg008jm220/cdj5psm3_cdj5qqu0qau000fq94n0

IBM YouTube Maps Gmail GitHub

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 ssh ip172-18-0-46-cdj5psm3tccg008jm220@direct.labs.play

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
1401dc3c0bd22f741f40a84ceda028c2e23ca98480bd4d9cb0bc89471a3f81ce
(node1) (local) root@192.168.0.18 ~
$
```

ENG US 07:25 PM 05/11/2022

IBM x CAD-B8-244E (All x uifd/ui-for-docker - Docker Playground x UI For Docker x Docker Desktop - Docker x + -

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

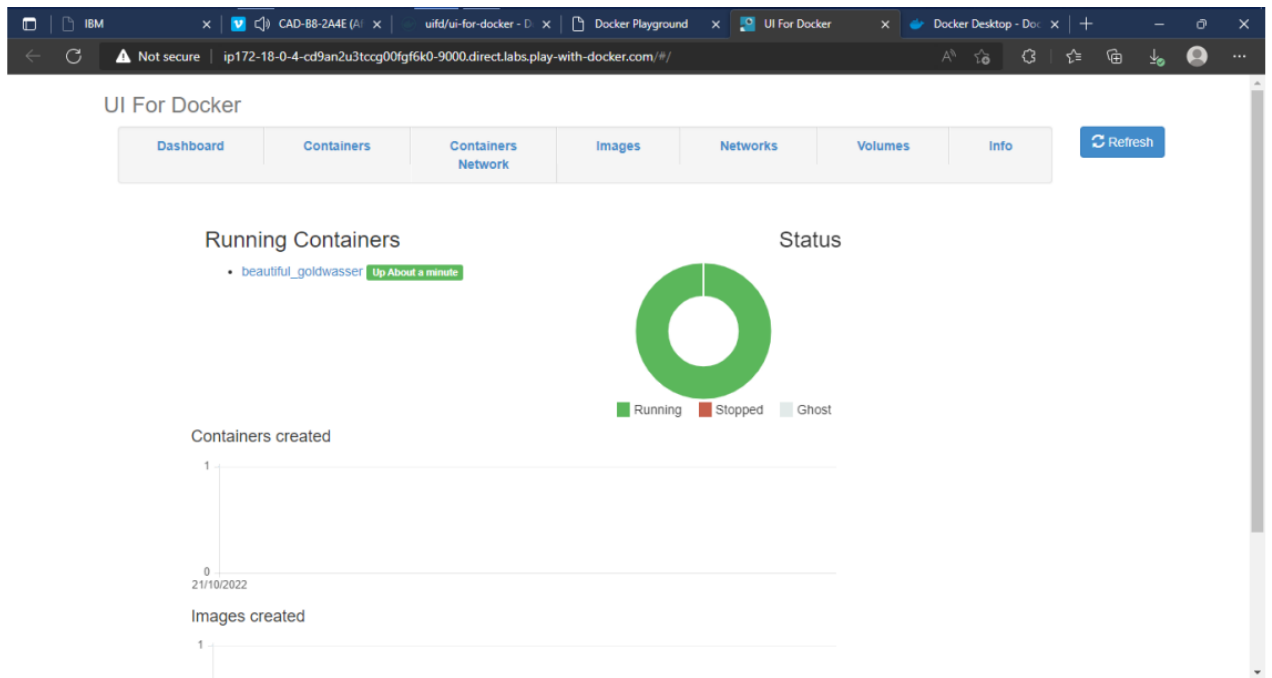
The UI for Docker container engine

Learn more.

Running Containers

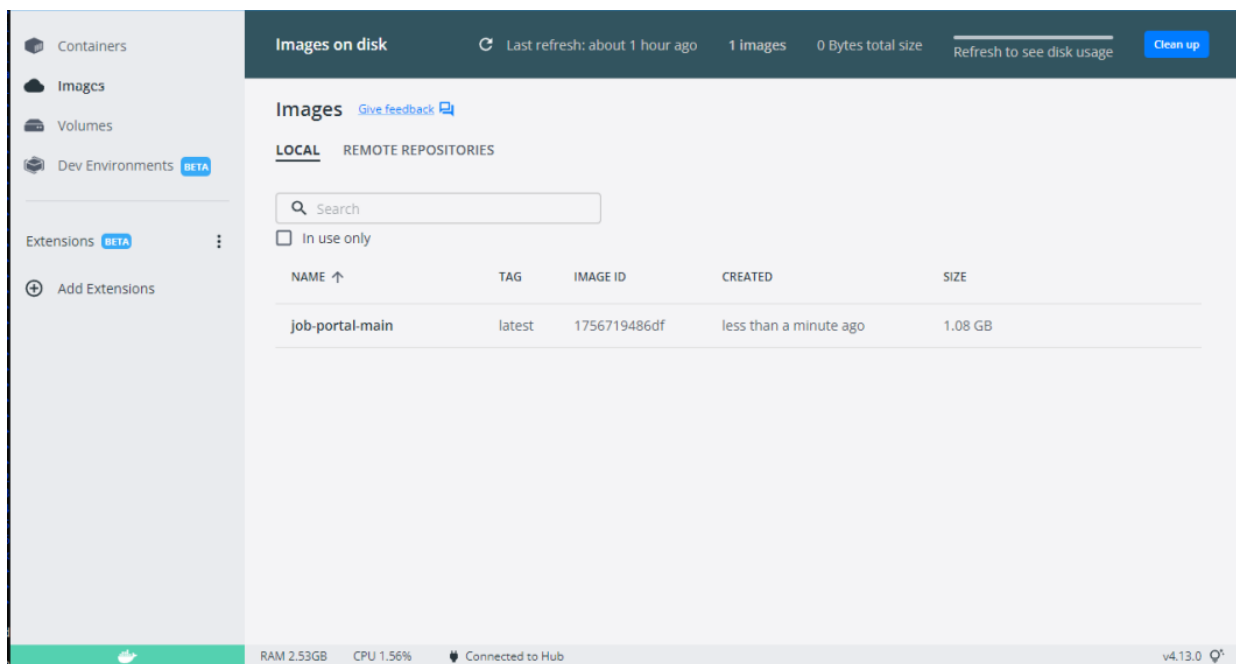
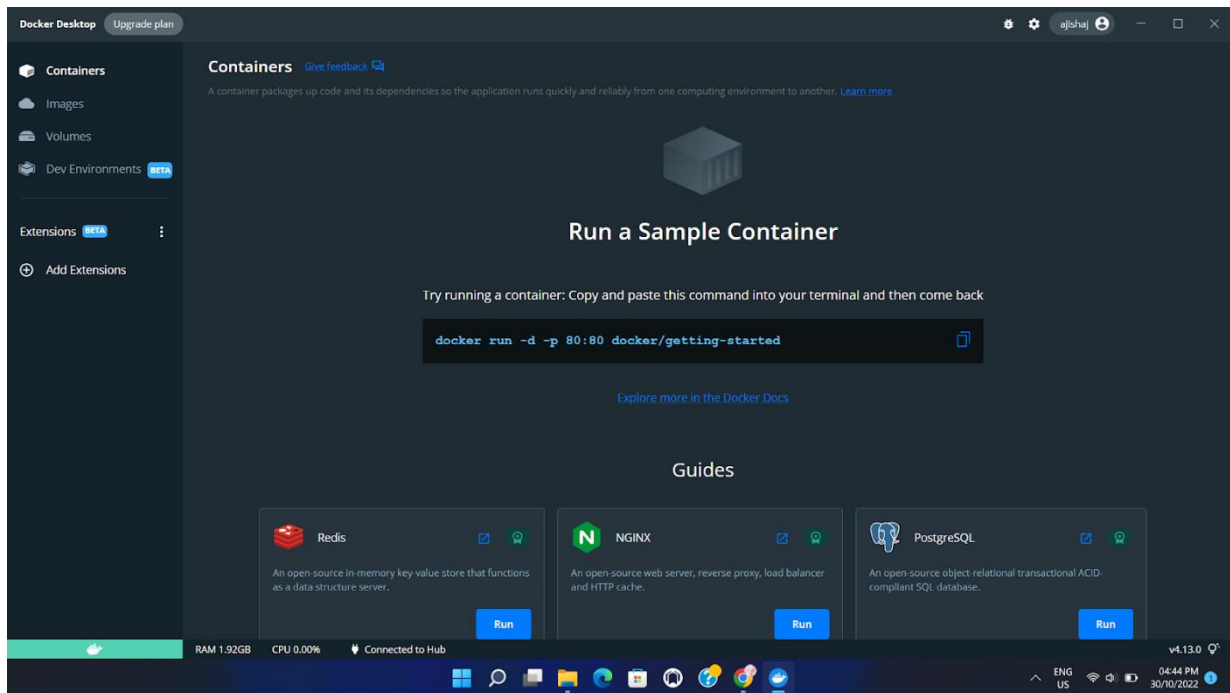
- beautiful_goldwasser Up About a minute

Status



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

```
C:\Windows\System32\cmd.exe
>> [internal] load build definition from Dockerfile
>> => transferring dockerfile: 32B
>> [internal] load .dockerignore
>> => transferring context: 2B
>> [internal] load metadata for docker.io/library/python:3.6
>> [auth] library/python:pull token for registry-1.docker.io
>> [internal] load build context
>> => transferring context: 887B
>> [1/6] FROM docker.io/library/python:3.6@sha256:f8652afaf88c25f6d22354d547d892591067aa4026a7f9a6810df9f300af6fc
>> => resolve docker.io/library/python:3.6@sha256:f8652afaf88c25f6d22354d547d892591067aa4026a7f9a6810df9f300af6fc
>> sha256:f8652afaf88c25f6d22354d547d892591067aa4026a7f9a6810df9f300af6fc 1.86kB / 1.86kB
>> sha256:0057a0807a8c079d5ac31872350c30e510f02214c8448a926393b576d3b600 1.22kB / 1.22kB
>> sha256:54266030d07c5e3ad24c6e21fc8890b0c8406a27634c0892006ff71f3f44b104 9.27kB / 9.27kB
>> sha256:0e295440541c0bd309281d21a73a0d1db78665c1b95b74f32e000e0b77a6e1e3 54.92MB / 54.92MB
>> sha256:90829c73b520921097d5c07a54fb0f3e921995a296c714b53a32a0e7d19231fcd 54.15MB / 54.15MB
>> sha256:cb5b7ae361722f070eca53f35823ed21ba05d03d5d85cd5a95ab53d740cdd56 10.87MB / 10.87MB
>> sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e0f15c01aade718793 54.57MB / 54.57MB
>> sha256:6f9f74890d9a93fe0172f594fab85e0b4e8a0401a0f0d9112efc7e4d3c78f7 196.51MB / 196.51MB
>> sha256:5e3b1213efc56598e78bd002083945c164de2a37205e00a02dada823124dc743 6.29MB / 6.29MB
>> extracting sha256:0e295440541c0bd309281d21a73a0d1db78665c1b95b74f32e000e0b77a6e1e3 27.35 / 27.35
>> sha256:9fd0d4c56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 14.21MB / 14.21MB
>> extracting sha256:0057a0807a8c079d5ac31872350c30e510f02214c8448a926393b576d3b600 2.33 / 2.33
>> sha256:cb5b7ae361722f070eca53f35823ed21ba05d03d5d85cd5a95ab53d740cdd56 4.95 / 4.95
>> sha256:404f02044b0c432ca522cbb9f354b1c91fcea6800bfeef0be0b243b2f31bab7 235B / 235B
>> sha256:c4f42be2be53b00ebffc040c1df13de538434ccc5f50954a56048a6169a3a3f 2.21MB / 2.21MB
>> extracting sha256:6494e4811622b31c027ccac322ca463937fd805f569a93e0f15c01aade718793 27.33 / 27.33
>> extracting sha256:6f9f74890d9a93fe0172f594fab85e0b4e8a0401a0f0d9112efc7e4d3c78f7 131.45 / 131.45
>> extracting sha256:5e3b1213efc56598e78bd002083945c164de2a37205e00a02dada823124dc743 8.2c / 8.2c
>> extracting sha256:9fd0d4c56334f2e6efad7e241bf5e7459c40ed105c5478676f41c1244bd96752 11.3c / 11.3c
>> extracting sha256:404f02044b0c432ca522cbb9f354b1c91fcea6800bfeef0be0b243b2f31bab7 0.0c / 0.0c
>> extracting sha256:c4f42be2be53b00ebffc040c1df13de538434ccc5f50954a56048a6169a3a3f 2.2c / 2.2c
>> [2/6] WORKDIR /app
>> [3/6] ADD . /app
>> [4/6] COPY requirements.txt /app
>> [5/6] RUN python3 -m pip install -r requirements.txt
>> [6/6] RUN python3 -m pip install ibm_db
>> exporting to image
>> exporting layers
>> writing image sha256:17567194860f002fad5dae305c5221513f2ff2d1b49a80242b22a28af0379f19
>> naming to docker.io/library/job-portal-main
Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
C:\Users\VK-PC\Desktop\job-portal-main>
```



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

The screenshot shows the IBM Cloud Deploy console. At the top, there's a 'DEPLOY' header with a 'DELETE' button. Below it are tabs for 'INPUT', 'JOBS', and 'ENVIRONMENT PROPERTIES'. The 'JOBS' tab is active, showing a 'Rolling Deploy' job. The job configuration is as follows:

Deploy configuration	
Deployer type	Cloud Foundry
IBM Cloud region	US South - https://api.ng.bluemix.net
Organization	bluemix_devops@ibm.com
Space	demo
Application name	simple-website-ae7f5ff6

```
1  {
2    "ServiceId": "com.ibm.cloudoe.orion.client.deploy",
3    "Params": {
4      "Target": {
5        "Url": "https://api.ng.bluemix.net",
6        "Org": "bluemix_devops@ibm.com",
7        "Space": "demo"
8      },
9      "Name": "simple-website-ae7f5ff6",
10     "Instrumentation": {}
11   },
12   "Path": "manifest.yml",
13   "Type": "Cloud Foundry"
14 }
```

Hello, IBM Cloud World!

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

