

Assignment-4

Plasma Donor Application

Team ID : PNT2022TMID43624

Team Leader : Rajasubhiksha P

Team member : Malavika KP

Team member : Varun N

Team member : Vishnu KM

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

The screenshot displays the Docker Playground web interface. On the left, a sidebar shows a timer at 03:50:50, a 'CLOSE SESSION' button, and a list of instances with one instance named 'node1' at IP 192.168.0.28. The main area shows the instance details for 'cdvjh379_cdvjh6791rrg008mq65g' with IP 192.168.0.28 and an 'OPEN PORT' button. Below this, there are 'DELETE' and 'EDITOR' buttons. The terminal window shows the following commands and output:

```
#####
[node1] (local) root@192.168.0.28 ~
$ docker pull uifd/ui-for-docker
Using default tag: latest
latest: Pulling from uifd/ui-for-docker
841194d080c8: Pull complete
Digest: sha256:fe371ff5a69549269b24073a5ab1244d4c0b834cbadf244870572150b1cb749
Status: Downloaded newer image for uifd/ui-for-docker:latest
docker.io/uifd/ui-for-docker:latest
[node1] (local) root@192.168.0.28 ~
$ ^[[200~docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker~
bash: $^[[200~docker': command not found
[node1] (local) root@192.168.0.28 ~
$ ^[[200~docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
bash: $^[[200~docker': command not found
[node1] (local) root@192.168.0.28 ~
$ docker run -d -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uifd/ui-for-docker
cb48849e98ae67a3ba6aaa23a7b0b34a2a7a693d1a0052835b73e5fee7d6c175
[node1] (local) root@192.168.0.28 ~
$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
cb48849e98ae   uifd/ui-for-docker  "/ui-for-docker"        4 minutes ago  Up 4 minutes  0.0.0.0:9000->9000/tcp              confident_nash
```

The bottom of the screen shows a Windows taskbar with the date 24-11-2022 and time 15:04.

WhatsApp x Docker Hub x https://mail.goo x New Tab x WhatsApp x Assignment 4.pdf x hello-world - Off x Docker Playgrou x

labs.play-with-docker.com/p/cdvjm260qau0009mlifg#cdvjm260_cdvjm560qau0009mlig0

03:52:55

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.18
node1

cdvjm260_cdvjm560qau0009mlig0

IP
192.168.0.18
OPEN PORT

Memory
CPU

SSH
ssh ip172-18-0-136-cdvjm260qau0009mlifg@direct.labs.pla

DELETE EDITOR

```
##### WARNING!!!! #####
# This is a sandbox environment. Using personal credentials
# is HIGHLY! discouraged. Any consequences of doing so are
# completely the user's responsibilities.
#
# The PWD team.
#####
(node1) (local) root@192.168.0.18 ~
$ docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
2db29710123e: Pull complete
Digest: sha256:faa03e786c97f07ef34423fccceec2398ec8a5759259f94d99078f264e9d7af
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
(node1) (local) root@192.168.0.18 ~
$ docker image

Usage: docker image COMMAND

Manage images
```

31°C
Haze

WhatsApp x Docker Hub x https://mail.goo x New Tab x WhatsApp x Assignment 4.pdf x hello-world - Off x Docker Playgrou x

labs.play-with-docker.com/p/cdvjm260qau0009mlifg#cdvjm260_cdvjm560qau0009mlig0

03:52:35

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.18
node1

cdvjm260_cdvjm560qau0009mlig0

IP
192.168.0.18
OPEN PORT

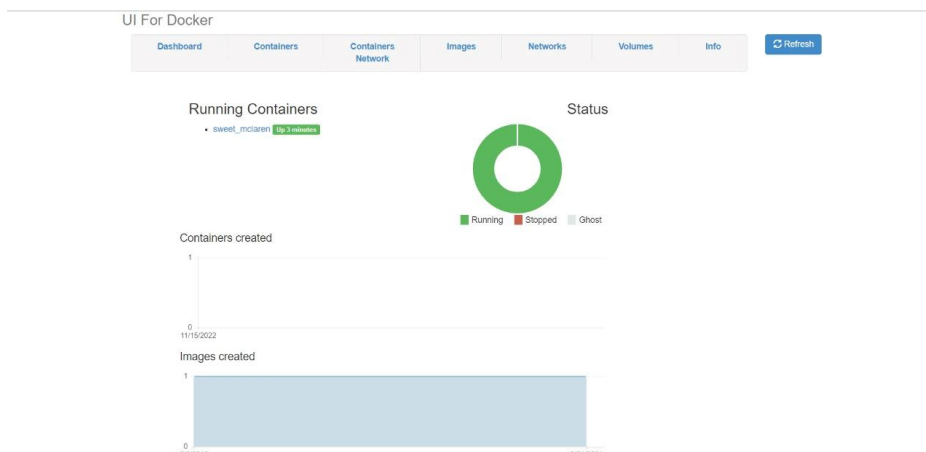
Memory
CPU

SSH
ssh ip172-18-0-136-cdvjm260qau0009mlifg@direct.labs.pla

DELETE EDITOR

```
pull      Pull an image or a repository from a registry
push      Push an image or a repository to a registry
rm        Remove one or more images
save      Save one or more images to a tar archive (streamed to STDOUT by default)
tag       Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE

Run 'docker image COMMAND --help' for more information on a command.
(node1) (local) root@192.168.0.18 ~
$ docker rmi -f uifd/ui-for-docker
docker: 'rmi -f' is not a docker command.
See 'docker --help'
(node1) (local) root@192.168.0.18 ~
$ docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS        NAMES
(node1) (local) root@192.168.0.18 ~
$ docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
hello-world   latest   feb5d9fea6a5   14 months ago  13.3kB
(node1) (local) root@192.168.0.18 ~
$ docker rmi -f uifd/ui-for-docker
Error: No such image: uifd/ui-for-docker
(node1) (local) root@192.168.0.18 ~
$
```



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

```
FROM python:3.10.6
WORKDIR /app
COPY requirements.txt ./
RUN pip install -r requirements.txt
COPY . .
EXPOSE 5000
CMD ["python", "./app.py"]
```

The screenshot shows a Visual Studio Code window with a terminal open. The terminal output shows the command 'python -m flask run' being executed in a directory named 'FLASK_WITH_FORM'. Below this, the command 'docker build -t flask_with_form .' is run, which starts the Docker build process. The output shows the build progress, including the transfer of the Dockerfile and the loading of metadata for the Python 3.10.6 image. The build is successful, and the resulting image is named 'flask_with_form'. The terminal also shows the command 'python -m flask run' being executed again, and the output shows the application running on port 5000.

```
File Edit Selection View Go Run Terminal Help Dockerfile - flask_with_form - Visual Studio Code
EXPLORER PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
FLASK_WITH_FORM
  _pycache_
  templates
  base.html
  create.html
  index.html
  success.html
  venv
  app.py
  app.pyc
  Dockerfile
  requirements.txt

[1/5] FROM docker.io/library/python:3.10.6sha256:745efdfb7e4aac9a8422bd8c62d8bc35a693e8979a248d29677cb03e6aa91052 353.2s
=> resolve docker.io/library/python:3.10.6sha256:745efdfb7e4aac9a8422bd8c62d8bc35a693e8979a248d29677cb03e6aa91052 0.1s
=> sha256:8d1f943ceaf3b3ce95df5c925e7958836b048b70b176b9f9c56d8f3ac13fca 2.22kB / 2.22kB 0.0s
=> sha256:3e94d13e5e7a4ef17f21376f57fb95c7e1706931f8704aa992c0968d81f6e4 5.16MB / 5.16MB 7.7s
=> sha256:745efdfb7e4aac9a8422bd8c62d8bc35a693e8979a248d29677cb03e6aa91052 2.35kB / 2.35kB 0.0s
=> sha256:d25a66388018283603ff696d777bba5cd1b5126f0b0e7d11809574946bcbf84 8.53kB / 8.53kB 0.0s
=> sha256:1671565cc8d8f8c365c9b661d3fbc164e73d0b1f10410c6179588428f99a9da2e 55.01MB / 55.01MB 159.4s
=> sha256:f409752c08316129e8e57bf32a7702701a38538b3556a4158830657d6 10.88MB / 10.88MB 26.3s
=> sha256:53a072f9cd16f8eb93b182b20e758a11acc0ef60abef0bf1843c08de1901a 54.58MB / 54.58MB 159.2s
=> sha256:d6b983117533b718374f1701ef593dd2afa6613c7908c6553be8e2a150e648a 196.79MB / 196.79MB 339.8s
=> sha256:d8092d56ded5476fe7c302256eb4dc6ff495aefb4dd28aa18dcb7581e24a6c 6.29MB / 6.29MB 176.6s
=> sha256:c71afc37d59adc44c5fd3c348504df82b35bb204f0857ea22c6ac8a1d285a5 20.02MB / 20.02MB 199.6s
=> extracting sha256:1671565cc8d8f8c365c9b661d3fbc164e73d0b1f10410c6179588428f99a9da2e 3.6s
=> extracting sha256:3e94d13e5e7a4ef17f21376f57fb95c7e1706931f8704aa992c0968d81f6e4 0.3s
=> extracting sha256:f409752c08316129e8e57bf32a7702701a38538b3556a4158830657d6 0.4s
=> extracting sha256:53a072f9cd16f8eb93b182b20e758a11acc0ef60abef0bf1843c08de1901a 3.9s
=> sha256:864a10b3c704553e08cb5fcd12baee1c07048f6365f0fa35e84a285413da40b 2348 / 2348 177.7s
=> sha256:4334b2fe8293d19ddc13559093aae88f21601a7c85a31c6da6c8dc48fb6ed3c 3.04MB / 3.04MB 184.5s
=> extracting sha256:d6b983117533b718374f1701ef593dd2afa6613c7908c6553be8e2a150e648a 10.5s
=> extracting sha256:d8092d56ded5476fe7c302256eb4dc6ff495aefb4dd28aa18dcb7581e24a6c 0.4s
=> extracting sha256:c71afc37d59adc44c5fd3c348504df82b35bb204f0857ea22c6ac8a1d285a5 1.2s
=> extracting sha256:864a10b3c704553e08cb5fcd12baee1c07048f6365f0fa35e84a285413da40b 0.0s
=> extracting sha256:4334b2fe8293d19ddc13559093aae88f21601a7c85a31c6da6c8dc48fb6ed3c 0.4s
[internal] load build context
=> transferring context: 16.07MB 3.8s
[2/5] WORKDIR /app 0.4s
[3/5] COPY requirements.txt ./ 0.1s
[4/5] RUN pip install -r requirements.txt 6.0s
[5/5] COPY . . 0.3s
=> exporting to image 0.3s
=> exporting layers 0.3s
=> writing image sha256:a7e0ab8981b0dd1269564ccbbe5dd6f75c0942bfa3840818b68e9bc6ad6e80f 0.0s
=> naming to docker.io/library/flask_with_form 0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
PS E:\flask_with_form
```

```
File Edit Selection View Go Run Terminal Help Dockerfile - flask_with_form - Visual Studio Code
EXPLORER PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
FLASK_WITH_FORM
  _pycache_
  templates
  base.html
  create.html
  index.html
  success.html
  venv
  app.py
  app.pyc
  Dockerfile
  requirements.txt

=> extracting sha256:4334b2fe8293d19ddc13559093aae88f21601a7c85a31c6da6c8dc48fb6ed3c 0.4s
[internal] load build context
=> transferring context: 16.07MB 3.8s
[2/5] WORKDIR /app 0.4s
[3/5] COPY requirements.txt ./ 0.1s
[4/5] RUN pip install -r requirements.txt 6.0s
[5/5] COPY . . 0.3s
=> exporting to image 0.3s
=> exporting layers 0.3s
=> writing image sha256:a7e0ab8981b0dd1269564ccbbe5dd6f75c0942bfa3840818b68e9bc6ad6e80f 0.0s
=> naming to docker.io/library/flask_with_form 0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
PS E:\flask_with_form> docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
flask_with_form latest a7e0ab8981b0 About a minute ago 948MB
docker/getting-started latest cb90f98fd791 7 months ago 28.8MB
fenishall1/flask_with_form latest cb90f98fd791 7 months ago 28.8MB
PS E:\flask_with_form> docker push flask_with_form
Using default tag: latest
The push refers to repository [docker.io/library/flask_with_form]
88ff7d81750f: Preparing
f879a76b0b70: Preparing
0e8b9254b02e: Preparing
9979591e9368: Preparing
bfc1deb8136e: Preparing
1f123186824c: Waiting
3d6eb1152931: Waiting
100796cdf3b1: Waiting
54acb5a6fa0b: Waiting
8d51c618126f: Waiting
9ff6e646744: Waiting
a89d1d47b5a1: Waiting
655ed1b7a428: Waiting
denied: requested access to the resource is denied
PS E:\flask_with_form
```

```
File Edit Selection View Go Run Terminal Help Dockerfile - flask_with_form - Visual Studio Code
EXPLORER PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
FLASK_WITH_FORM
  _pycache_
  templates
  base.html
  create.html
  index.html
  success.html
  venv
  app.py
  app.pyc
  Dockerfile
  requirements.txt

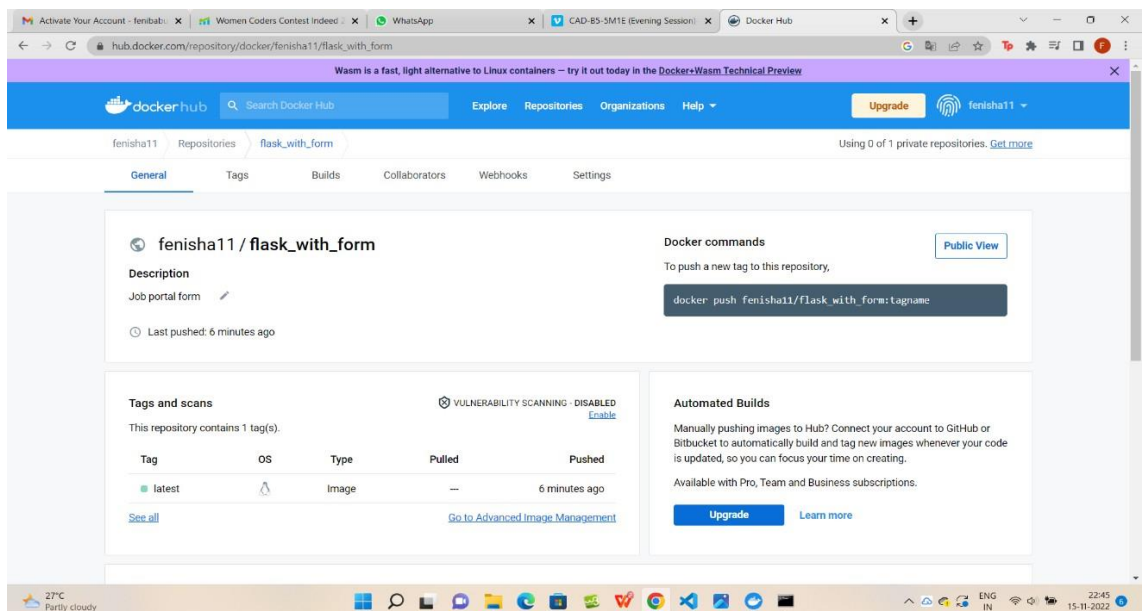
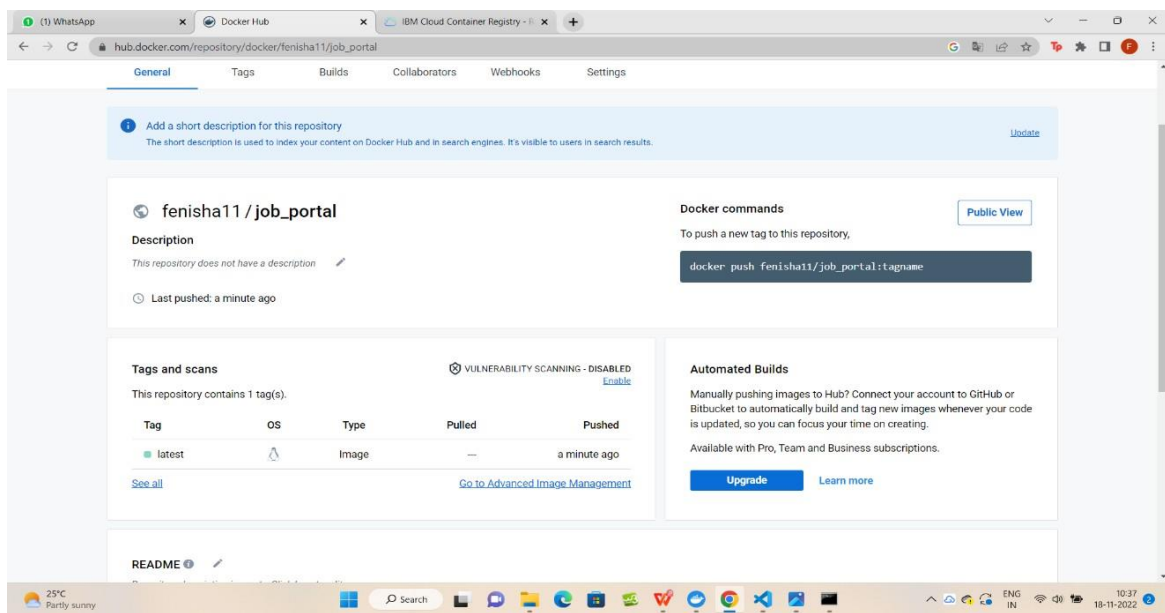
PS E:\flask_with_form> docker push flask_with_form
Using default tag: latest
The push refers to repository [docker.io/library/flask_with_form]
88ff7d81750f: Preparing
f879a76b0b70: Preparing
0e8b9254b02e: Preparing
9979591e9368: Preparing
bfc1deb8136e: Preparing
1f123186824c: Waiting
3d6eb1152931: Waiting
100796cdf3b1: Waiting
54acb5a6fa0b: Waiting
8d51c618126f: Waiting
9ff6e646744: Waiting
a89d1d47b5a1: Waiting
655ed1b7a428: Waiting
denied: requested access to the resource is denied
PS E:\flask_with_form> docker tag flask_with_form:latest fenishall1/flask_with_form:latest
PS E:\flask_with_form> docker push fenishall1/flask_with_form
Using default tag: latest
The push refers to repository [docker.io/fenishall1/flask_with_form]
88ff7d81750f: Pushed
f879a76b0b70: Pushed
0e8b9254b02e: Pushed
9979591e9368: Pushed
bfc1deb8136e: Pushed
1f123186824c: Pushed
3d6eb1152931: Pushed
100796cdf3b1: Pushed
54acb5a6fa0b: Pushed
8d51c618126f: Pushed
9ff6e646744: Pushed
a89d1d47b5a1: Pushed
655ed1b7a428: Pushed
latest: digest: sha256:e9d2646aa7f66d5b16c2be8f9c3c3c433f49135a8f84ff7ac9929e0dae78 size: 3854
PS E:\flask_with_form
```


The screenshot shows a VS Code editor with a project named 'JOB PORTAL'. The Explorer sidebar on the left shows the file structure: IBM, Assignment, JOB PORTAL (containing static, templates, app.py, deployment.yaml, Dockerfile, README.md, requirements.txt, sendemail.py, service.yaml), CAD, and DigiCertGlobalRootCA.... The main editor displays the 'app.py' file with the following code:

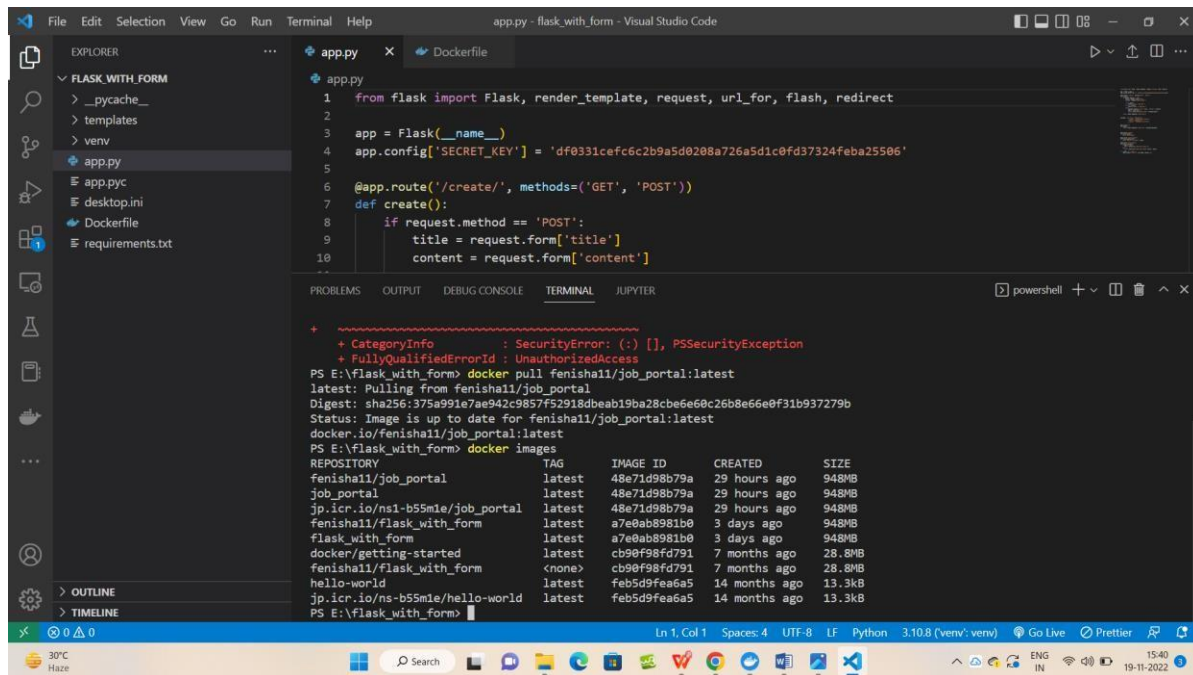
```
requirements.txt U app.py 2, U X
JOB PORTAL > app.py > apply
81 def apply():
82
83     return render_template('dashboard.html')
84
85 @app.route('/apply', methods = ['GET', 'POST'])
86 def apply():
87     msg = ''
88     if request.method == 'POST':
89         username = request.form['username']
90         email = request.form['email']
```

The TERMINAL pane at the bottom shows the command 'sudo docker run -p 8080:8080 8b022ea43a31' and its output:

```
(base) maryada@maryada:~/IBM/JOB PORTAL$ sudo docker run -p 8080:8080 8b022ea43a31
* Serving Flask app 'app' (lazy loading)
* Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Debug mode: off
* Running on all addresses.
WARNING: This is a development server. Do not use it in a production deployment.
* Running on http://172.17.0.2:5000/ (Press CTRL+C to quit)
172.17.0.1 - - [22/Oct/2022 05:06:38] "GET / HTTP/1.1" 200 -
172.17.0.1 - - [22/Oct/2022 05:06:38] "GET /css/style.css HTTP/1.1" 404 -
172.17.0.1 - - [22/Oct/2022 05:06:38] "GET /static/img/smartinternz.png HTTP/1.1" 404 -
172.17.0.1 - - [22/Oct/2022 05:06:38] "GET /assets/img/favicon-32x32.png HTTP/1.1" 404 -
```



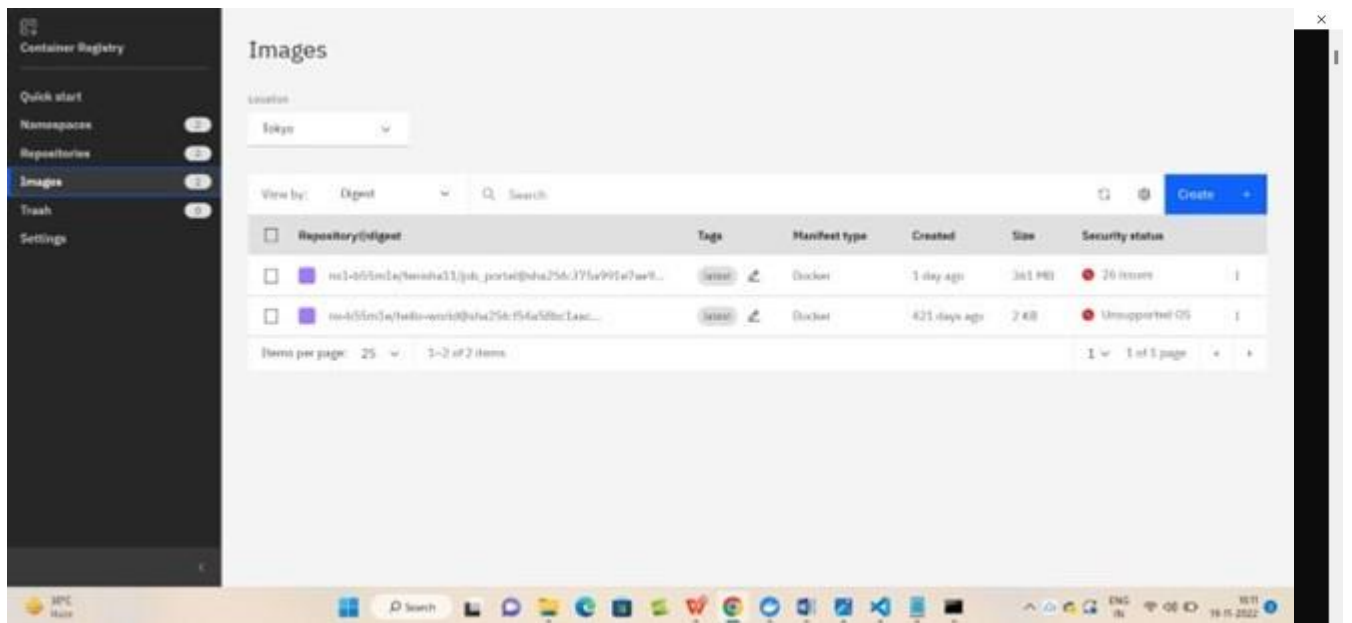
3. Create a IBM container registry and deploy helloworld app or jobportalapp.



```
File Edit Selection View Go Run Terminal Help
app.py - flask_with_form - Visual Studio Code

EXPLORER
  FLASK WITH FORM
    > __pycache__
    > templates
    > venv
    app.py
    app.pyc
    desktop.ini
    Dockerfile
    requirements.txt

app.py
1 from flask import Flask, render_template, request, url_for, flash, redirect
2
3 app = Flask(__name__)
4 app.config['SECRET_KEY'] = 'df0331cefc6c2b9a5d0208a726a5d1c0fd37324feba25506'
5
6 @app.route('/create/', methods=('GET', 'POST'))
7 def create():
8     if request.method == 'POST':
9         title = request.form['title']
10        content = request.form['content']
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USAGE :



IBM Cloud

Container Registry

Quick start

Namespaces

Repositories

Images

Trash

Settings

Search resources and products...

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Namespaces

Location

Tokyo

Resource group: Filter...Search

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Name	Resource group	Repository count	Image count	Retention policy
ns3-b55m1e	Default	0	0	

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Container Registry

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Welcome!

Let's get started by installing the needed CLIs, setting up your first private registry namespace, and pushing your first image.

Install, Set Up, and Log In

1. Install the IBM Cloud CLI.

2. Install the Docker CLI.

3. Install the Container Registry plug-in.

ibmcloud plugin install container-registry -r 'IBM Cloud'

4. Log in to your IBM Cloud account.

ibmcloud login -a https://cloud.ibm.com

If you have a federated ID, use ibmcloud login --sso to log in to the IBM Cloud CLI.

5. Ensure that you're targeting the correct IBM Cloud Container Registry region.

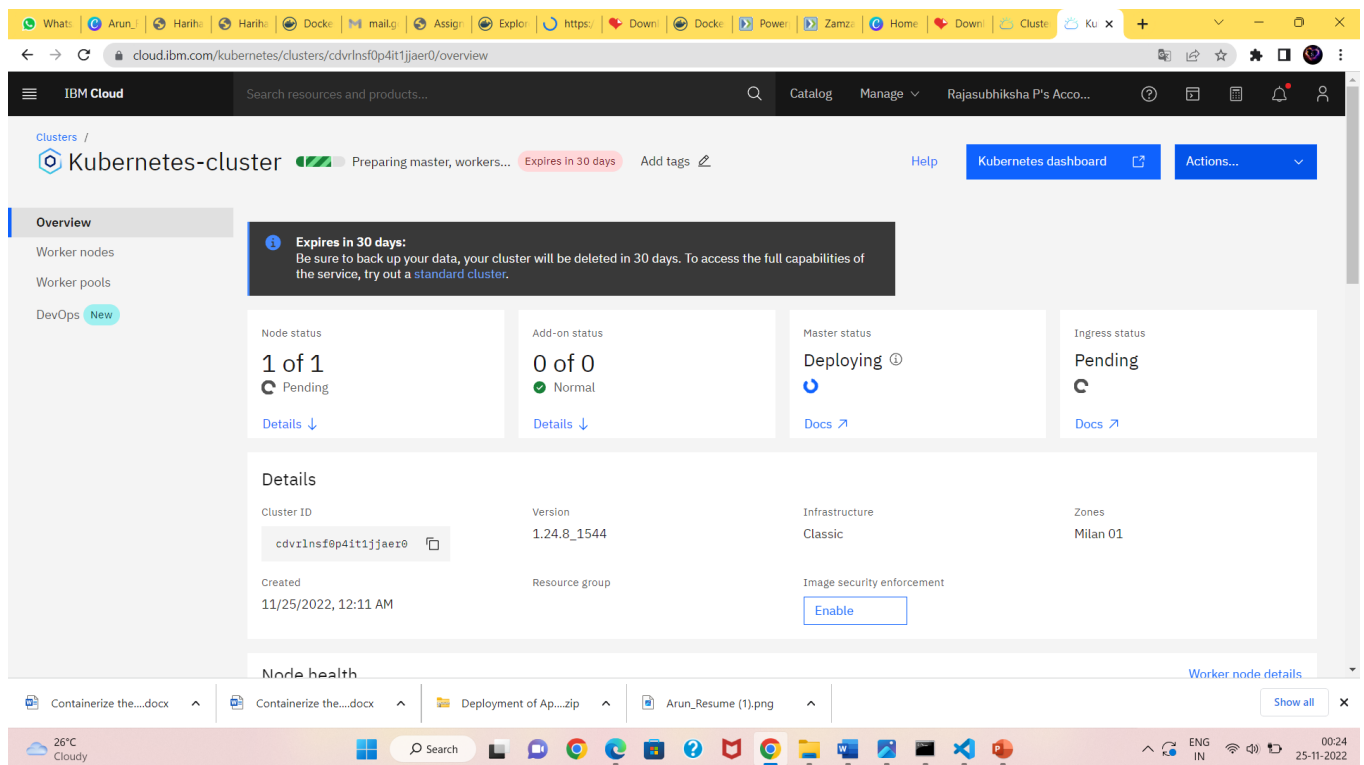
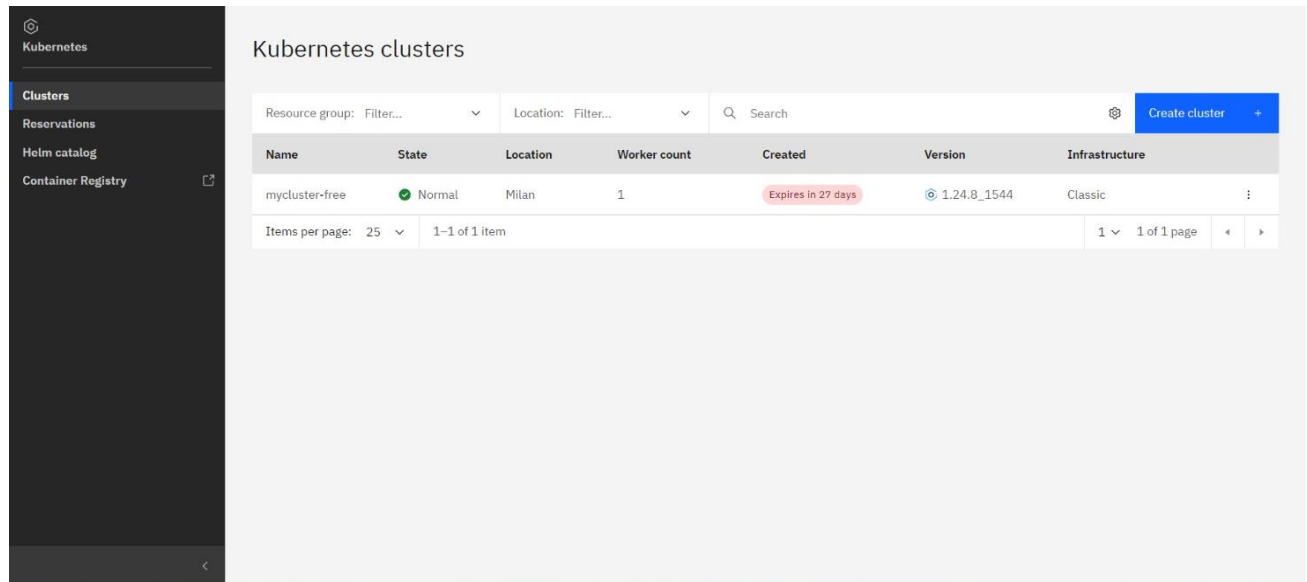
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4. Create a Kubernetes cluster in IBM cloud and deploy helloworld image or jobportal image and also expose the same app to run in nodeport.



What: | Arun: | Harih: | Harih: | Docke: | mail: | Assig: | Explor: | https: | Down: | Docke: | Power: | Zamz: | Home: | Down: | Cluste: | Ku x

cloud.ibm.com/kubernetes/clusters/cdvrlnsf0p4it1jjaer0/pools

IBM Cloud

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Kubernetes-cluster

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

Overview

Worker nodes

Worker pools

DevOps New

Search

^

Name	Zones	Status	Workers per zone	Actual / Declared workers	Flavor	
default	Milan 01	Active	1	1 / 1	Free - 2 vCPUs 4GB RAM	

ID

cdvrlnsf0p4it1jjaer0-a66669b

Labels

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1 1 of 1 page

Containerize the....docx

Containerize the....docx

Deployment of Ap....zip

Arun_Resume (1).png

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Overview

Worker nodes

Worker pools

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Pool: Filter... Search

<input type="checkbox"/>	Name	Status	Worker pool	Zone	Private IP	Public IP	Version
<input type="checkbox"/>	00000089	Normal	default	Milan 01	10.144.214.17	169.51.205.163	1.24.8_1545

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kubernetes

All namespaces Search

Workloads > Pods

Workloads N

- Cron Jobs
- Daemon Sets
- Deployments
- Jobs
- Pods**
- Replica Sets
- Replication Controllers
- Stateful Sets

Service

- Ingresses N
- Ingress Classes
- Services N

Config and Storage

- Config Maps N
- Persistent Volume Claims N
- Secrets N

CPU Usage

Memory Usage

Pods

Name	Namespace	Images	Labels	Node	Status	Restarts	CPU Usage (cores)	Memory Usage (bytes)	Created
ibm-master-proxy-static-10.144.214.17	kube-system	Show all	Show all	10.144.214.17	Running	0	2.00m	6.05Mi	a.day.ago
metrics-server-6544bb8bd5-vv4pn	kube-system	Show all	Show all	10.144.214.17	Running	0	12.00m	34.65Mi	a.day.ago
coredns-6d6bb8c854-4cljt	kube-system	Show all	Show all	10.144.214.17	Running	0	2.00m	13.53Mi	a.day.ago
coredns-6d6bb8c854-n8m5g	kube-system	Show all	Show all	10.144.214.17	Running	0	2.00m	13.61Mi	a.day.ago
ibm-kubernetes	kube-system	Show all	Show all	10.144.214.17	Running	0	1.00m	7.02Mi	a.day.ago

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