

Assignment-4

Plasma Donor Application

Team ID : PNT2022TMID43621

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Team member : Arun M

Team member : Saranraj S

Team member : Mridula M

Team member : Praveen Kumar K

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

The image displays two screenshots of the Docker Playground interface, showing the process of pulling and running a Docker image.

Top Screenshot:

- The interface shows a session titled "cdprmn63_cdprmn63tccg009q2hag".
- The IP address is 192.168.0.28, and the port 9000 is open.
- The memory usage is 1.69% (67.7MiB / 3.9GiB) and CPU usage is 0.64%.
- The SSH command is: `ssh ip172-18-0-8-cdprmn63tccg009q2hag@direct.labs.play`.
- The terminal output shows the following commands and results:
 - `docker pull hello-world`: Pulling from library/hello-world. Digest: sha256:f5a02b786c97f07e134423fccc0ec8a575525f194d990781264e9d7af. Status: Downloaded newer image for hello-world:latest.
 - `docker images`: Lists the pulled image:

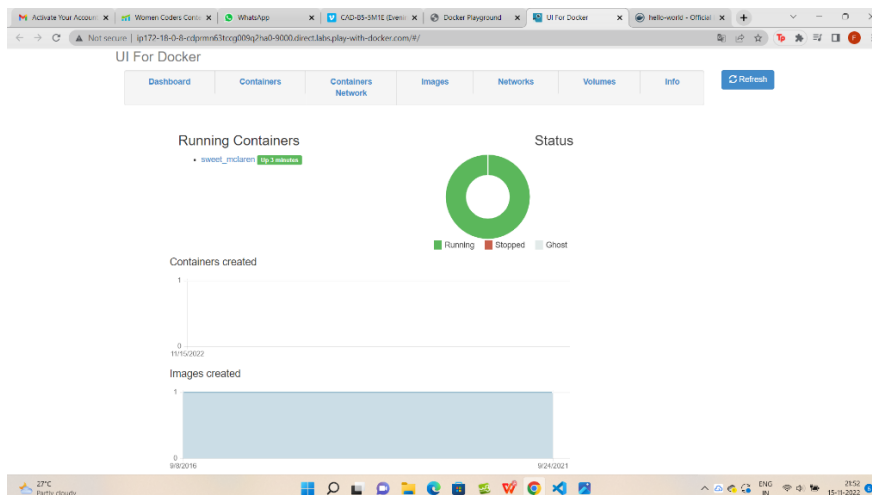
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
hello-world	latest	fb5d9fca6a5	13 months ago	13.3kB
 - `docker run -i uiid/ui-for-docker`: Container created and started. Container ID: b09974ce0f251f1fedec32884fcd6c0d651b88d16cdc671ede8dc47a7e2.
 - `docker ps`: Lists the running container:

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
b09974ce0f25	uiid/ui-for-docker	"/ui-for-docker"	3 minutes ago	Up 3 minutes	0.0.0.0:9000->9000/tcp	newest_mclaren

Bottom Screenshot:

- The interface shows the same session.
- The memory usage is 1.61% (64.54MiB / 3.9GiB) and CPU usage is 0.55%.
- The terminal output shows the following commands and results:
 - `docker pull uiid/ui-for-docker`: Pulling from uiid/ui-for-docker. Digest: sha256:f637f9f4644266b240713b1244144a0b1e344f744f70572150b1cd749. Status: Downloaded newer image for uiid/ui-for-docker:latest.
 - `docker run -i -p 9000:9000 --privileged -v /var/run/docker.sock:/var/run/docker.sock uiid/ui-for-docker`: Container created and started. Container ID: b09974ce0f251f1fedec32884fcd6c0d651b88d16cdc671ede8dc47a7e2.
 - `docker ps`: Lists the running container:

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
b09974ce0f25	uiid/ui-for-docker	"/ui-for-docker"	15 seconds ago	Up 34 seconds	0.0.0.0:9000->9000/tcp	newest_mclaren



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"]
```

```
PS E:\flask_with_form> python -m flask run
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.

Build an image from a Dockerfile
PS E:\flask_with_form> docker build -t flask_with_form .
[+] Building 365.7s (11/11) FINISHED
=> [internal] load build definition from Dockerfile                                0.1s
=> transferring dockerfile: 179B                                                  0.0s
=> [internal] load .dockerignore                                                  0.0s
=> transferring context: 2B                                                       0.0s
=> [internal] load metadata for docker.io/library/python:3.10.6                 5.0s
=> [auth] library/python:pull token for registry-1.docker.io                    0.0s
=> [1/5] FROM docker.io/library/python:3.10.6sha256:745efdfb7e4aac9e8422bd8c62d8bc35a693a68979a240d29677cb83e6aa91052 353.2s
=> resolve docker.io/library/python:3.10.6sha256:745efdfb7e4aac9e8422bd8c62d8bc35a693a68979a240d29677cb83e6aa91052 0.1s
=> sha256:8d1f943ceaf3b3ce8d5df5c0926e79588360a48b700176b9c56d8f37ac13fca 2.22kB / 2.22kB 0.0s
=> sha256:3e4d12a5574e4f1fff2197f57f6957e1706931f87044a9920696801f6e4 5.16kB / 5.16kB 7.7s
=> sha256:745efdfb7e4aac9e8422bd8c62d8bc35a693a68979a240d29677cb83e6aa91052 2.35kB / 2.35kB 0.0s
=> sha256:d23a66380810283893ff696d777b0a5c0bd0126f00e67d118b9574946bf84 8.53kB / 8.53kB 0.0s
=> sha256:1671565cc8f8c365c9b661d3fbc164e73d01f1b0430c617958842f99a9a2e 55.01kB / 55.01kB 159.4s
=> sha256:fa9c7528c685216129e8e67bf362a7702e701daa585ab85546a41588836657d6 10.88kB / 10.88kB 26.3s
=> sha256:53ad072f9cd16f38e93b182b2b6758e11acc0ef6b0b0ef0f1043c08e1901a 54.59kB / 54.59kB 159.2s
=> sha256:09b83117533b718374f1701ef593d021f6e613c7980c553be2a150e6448a 196.79kB / 196.79kB 339.8s
=> sha256:089219564e547ef47c30125eab4d4cf4495a8f94d018a18d6c07831e3446c 6.29kB / 6.29kB 176.6s
=> sha256:c71af637d59wd44c5fd3c348594df82b350bb304f0807ea22c6ac8a1d285a5 20.82kB / 20.82kB 199.6s
=> extracting sha256:1671565cc8f8c365c9b661d3fbc164e73d01f1b0430c617958842f99a9a2e 3.6s
=> extracting sha256:3e4d12a5574e4f1fff2197f57f6957e1706931f87044a9920696801f6e4 0.3s
=> extracting sha256:fa9c7528c685216129e8e67bf362a7702e701daa585ab85546a41588836657d6 0.4s
=> extracting sha256:53ad072f9cd16f38e93b182b2b6758e11acc0ef6b0b0ef0f1043c08e1901a 3.9s
=> sha256:164d10b3c70a553a06c5fd12f0ae1c87048f6365f8f9a3a6a285a136a40b 234B / 234B 177.7s
=> sha256:4334b2fe8293d194dc1c355993aaa80f21601a7c85a31cd4e6bdc48fb6d3c 3.04kB / 3.04kB 184.5s
=> extracting sha256:d6b98117533b718374f1701ef593d021f6e613c7980c553be2a150e6448a 10.5s
=> extracting sha256:089219564e547ef47c30125eab4d4cf4495a8f94d018a18d6c07831e3446c 0.4s
=> extracting sha256:c71af637d59wd44c5fd3c348594df82b350bb304f0807ea22c6ac8a1d285a5 1.2s
=> extracting sha256:164d10b3c70a553a06c5fd12f0ae1c87048f6365f8f9a3a6a285a136a40b 0.0s
=> extracting sha256:4334b2fe8293d194dc1c355993aaa80f21601a7c85a31cd4e6bdc48fb6d3c 0.4s
```

```
File Edit Selection View Go Run Terminal Help Dockerfile - flask_with_form - Visual Studio Code
EXPLORER
FLASK_WITH_FORM
  > __pycache__
  > templates
    base.html
    create.html
    index.html
    success.html
  > venv
    app.py
    app.pyc
    Dockerfile
    requirements.txt
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
[1/5] FROM docker.io/library/python:3.10.6sha256:745efdfb7e4aac9a8122b08c35d8bc35e93e8979a240d29677c03eaa91852 353.2s
=> resolve sha256:745efdfb7e4aac9a8122b08c35d8bc35e93e8979a240d29677c03eaa91852 0.1s
=> sha256:8d1f943ceaf3b3ce05f5c0926a7958836b0480708176bf9c56d8f3ac13fca 2.22kB / 2.22kB 0.0s
=> sha256:3e94d13e55e7a4ef17f21376f57f095c7e1786931f8704aa99260968d81fee4 5.16kB / 5.16kB 7.7s
=> sha256:745efdfb7e4aac9a8122b08c35d8bc35e93e8979a240d29677c03eaa91852 2.35kB / 2.35kB 0.0s
=> sha256:d25e66308b10283603f696d777b0a5c0db1b5126f08b7d118b9574946bcbf84 8.53kB / 8.53kB 0.0s
=> sha256:1671565cc8d8f8c365c9b661d3fbc164e73d01f1b0430c6179588428f99a9da2e 55.01kB / 55.01kB 159.4s
=> sha256:fa9c7528c85216129e8e67bf362a77026701daa585ab8546a41588830657d6 10.80kB / 10.80kB 26.3s
=> sha256:53ad072f9cd1fcb0b3b182b20e753a11cc0ef00ab0f0f1043c00d1101a 54.50kB / 54.50kB 159.2s
=> sha256:d0b98117533b718374f1701ef593dd2af6613c7908c6553be2a150e6448a 196.79kB / 196.79kB 339.8s
=> sha256:d8092d56ded5476fe7c30225eb4dc6ff495aefb4dd28aa18dcb7581e24a6c 6.29kB / 6.29kB 176.6s
=> sha256:c71afc37d59adc44c5fd3c348504df82b35bb204f0057ea22c6ac8a1d285a5 20.02kB / 20.02kB 199.6s
=> extracting sha256:1671565cc8d8f8c365c9b661d3fbc164e73d01f1b0430c6179588428f99a9da2e 3.6s
=> extracting sha256:3e94d13e55e7a4ef17f21376f57f095c7e1786931f8704aa99260968d81fee4 0.3s
=> extracting sha256:fa9c7528c85216129e8e67bf362a77026701daa585ab8546a41588830657d6 0.4s
=> extracting sha256:53ad072f9cd1fcb0b3b182b20e753a11cc0ef00ab0f0f1043c00d1101a 3.9s
=> sha256:864a10b3c704553e08c5fcd12fbac1c07048f6365f0fa35e84a285413da40b 2348 / 2348 177.7s
=> sha256:4334b2f8293d19ddc1c3559093aae88f21601a7c85a31c6da6c0dc48fb6ed3c 3.04kB / 3.04kB 184.5s
=> sha256:d0b98117533b718374f1701ef593dd2af6613c7908c6553be2a150e6448a 10.5s
=> extracting sha256:d8092d56ded5476fe7c30225eb4dc6ff495aefb4dd28aa18dcb7581e24a6c 0.4s
=> extracting sha256:c71afc37d59adc44c5fd3c348504df82b35bb204f0057ea22c6ac8a1d285a5 1.2s
=> extracting sha256:864a10b3c704553e08c5fcd12fbac1c07048f6365f0fa35e84a285413da40b 0.0s
=> extracting sha256:4334b2f8293d19ddc1c3559093aae88f21601a7c85a31c6da6c0dc48fb6ed3c 0.4s
[internal] load build context
=> transferring context: 16.07MB 3.7s
=> [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:a7e0ab8981b0dd1269564ccbbe05dd6f75c0942bfa3040818b68e9bcbad6e80f 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
FLASK_WITH_FORM
  > __pycache__
  > templates
    base.html
    create.html
    index.html
    success.html
  > venv
    app.py
    app.pyc
    Dockerfile
    requirements.txt
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
=> extracting sha256:4334b2f8293d19ddc1c3559093aae88f21601a7c85a31c6da6c0dc48fb6ed3c 0.4s
[internal] load build context
=> transferring context: 16.07MB 3.7s
=> [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:a7e0ab8981b0dd1269564ccbbe05dd6f75c0942bfa3040818b68e9bcbad6e80f 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 848kB
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
f879a760b070: Preparing
0e8b9254b02e: Preparing
9979591e9368: Preparing
bfc1deb8136e: Preparing
1f123186824c: Waiting
3d6eb1152931: Waiting
100796cdf3b1: Waiting
54acb5a6fa0b: Waiting
8d51c618126f: Waiting
9ff6e4d46744: 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
FLASK_WITH_FORM
  > __pycache__
  > templates
    base.html
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    app.py
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    Dockerfile
    requirements.txt
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
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
f879a760b070: Preparing
0e8b9254b02e: Preparing
9979591e9368: Preparing
bfc1deb8136e: Preparing
1f123186824c: Waiting
3d6eb1152931: Waiting
100796cdf3b1: Waiting
54acb5a6fa0b: Waiting
8d51c618126f: Waiting
9ff6e4d46744: 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
f879a760b070: Pushed
0e8b9254b02e: Pushed
9979591e9368: Pushed
bfc1deb8136e: Pushed
1f123186824c: Pushed
3d6eb1152931: Pushed
100796cdf3b1: Pushed
54acb5a6fa0b: Pushed
8d51c618126f: Pushed
9ff6e4d46744: Pushed
a89d1d47b5a1: Pushed
655ed1b7a428: Pushed
latest: digest: sha256:e9d2646aaf766d561c2cbe8fd9c3c3c43f49135a0fc84ff7acb9929e0dae78 size: 3054
PS E:\flask_with_form>
```

```

File Edit Selection View Go Run Terminal Help
EXPLORER
  IBM
    Assignment
      JOB PORTAL
        static
        templates
        app.py 2, U
        deployment.yaml
        DigiCertGlobalRootCA...
        Dockerfile
        README.md
        requirements.txt
        sendemail.py
        service.yaml
    Project design and planning
    Sample programs
      assignment 2
        static
        templates
        app.py
        DigiCertGlobalRootCA.crt
    OUTLINE
    TIMELINE

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']

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
sudo -JOB PORTAL + - - - - -
Build an image from a Dockerfile
(base) maryada@maryada:~/IBM/JOB PORTAL$ sudo docker build --build-arg HTTP_PROXY=https://10.70.52.146:3128 .
Sending build context to Docker daemon 47.62kB
Step 1/8 : FROM python:3.6
--> 54260638d07c
Step 2/8 : WORKDIR /app
--> Using cache
--> 993215fe524e
Step 3/8 : ADD . /app
--> 4351b5c29fdb
Step 4/8 : COPY requirements.txt /app
--> 45acc8d4f27f
Step 5/8 : RUN python3 -m pip install -r requirements.txt
--> Running in 8e223a861382

```

```

File Edit Selection View Go Run Terminal Help
EXPLORER
  IBM
    Assignment
      JOB PORTAL
        static
        templates
        app.py 2, U
        deployment.yaml
        DigiCertGlobalRootCA...
        Dockerfile
        README.md
        requirements.txt
        sendemail.py
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    Project design and planning
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        static
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    OUTLINE
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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']

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
bash -JOB PORTAL + - - - - -
Step 8/8 : CMD ["python","app.py"]
--> Running in e76a612bbca1
Removing intermediate container e76a612bbca1
--> 8b022ea43a31
Successfully built 8b022ea43a31

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
(base) maryada@maryada:~/IBM/JOB PORTAL$ sudo docker images
REPOSITORY          TAG          IMAGE ID       CREATED        SIZE
<none>              <none>       8b022ea43a31  12 seconds ago 1.08GB
<none>              <none>       32695b39400c  26 minutes ago 902MB
python              3.6         54260638d07c  10 months ago 902MB
hello-world         latest      feb5d9fea6a5  13 months ago 13.3kB
sandeepdoodigani/sandeepplasmaapp latest      5653112dee63  15 months ago 105MB
(base) maryada@maryada:~/IBM/JOB PORTAL$

```



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Aboutus

Mission

SMARTBRIDGE is an edTech organization with a vision to bridge the gap between academia & industry. Our outcome-based experiential learning programs on emerging technologies (Internet of Things, Machine Learning, Data Science, Artificial Intelligence, Robotics) are building skilled entry-level engineers, for the corporate world. .

Vission

Our main objective is to bridge the existing gaps between prevailing industry standards and what the academics offer to the graduates while passing out of university. SmartBridge offers suitable skill deployment and training to the young talent before on boarding their first job. Our skill development programs are designed considering the present expectations in the industry.

Objective

Well directed career guidance programs for educational institutions
Appropriate certification courses that suit the industry need
Train the trainers; expanded awareness about the current industry standards
Liaise with corporates to offer niche internships
Establish technology development centers in colleges
Specialised incubation centers in collaboration with corporates

JobPortal

Lorem ipsum dolor sit amet consectetur adipiscing elit. Voluptatum quis, reiciendis id magni magnam, accusamus nobis in, temporibus molestias ab nescit enim aniam illum nescipiat ducimus nati Finit adit ducimus

Get in Touch

- jobportal@gmail.com
- +91 8977787657

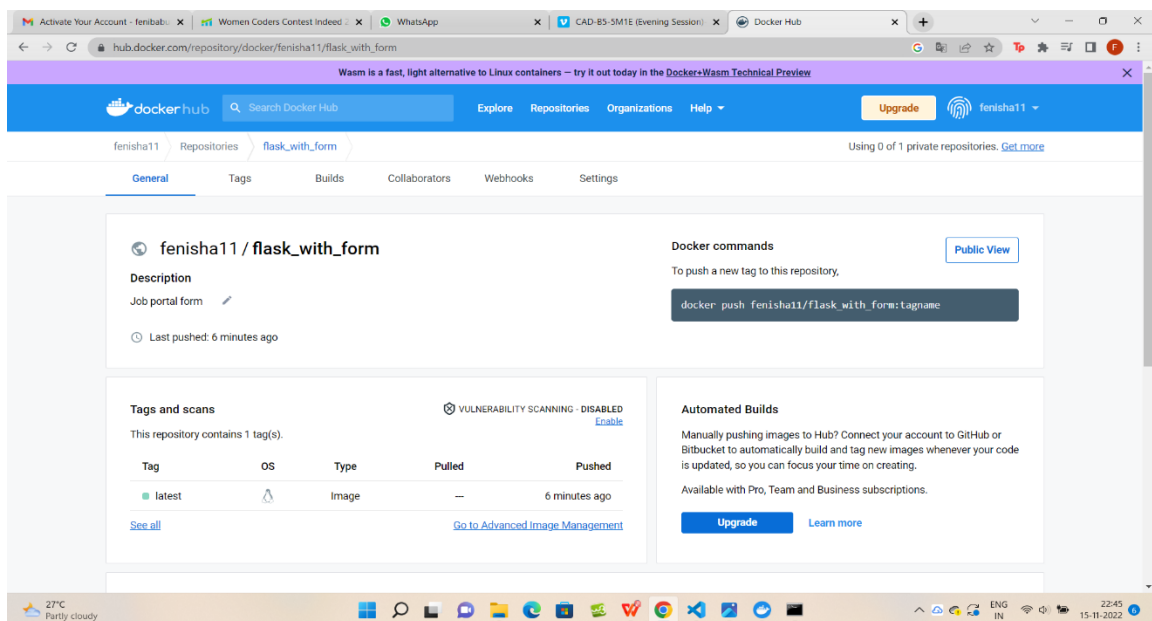
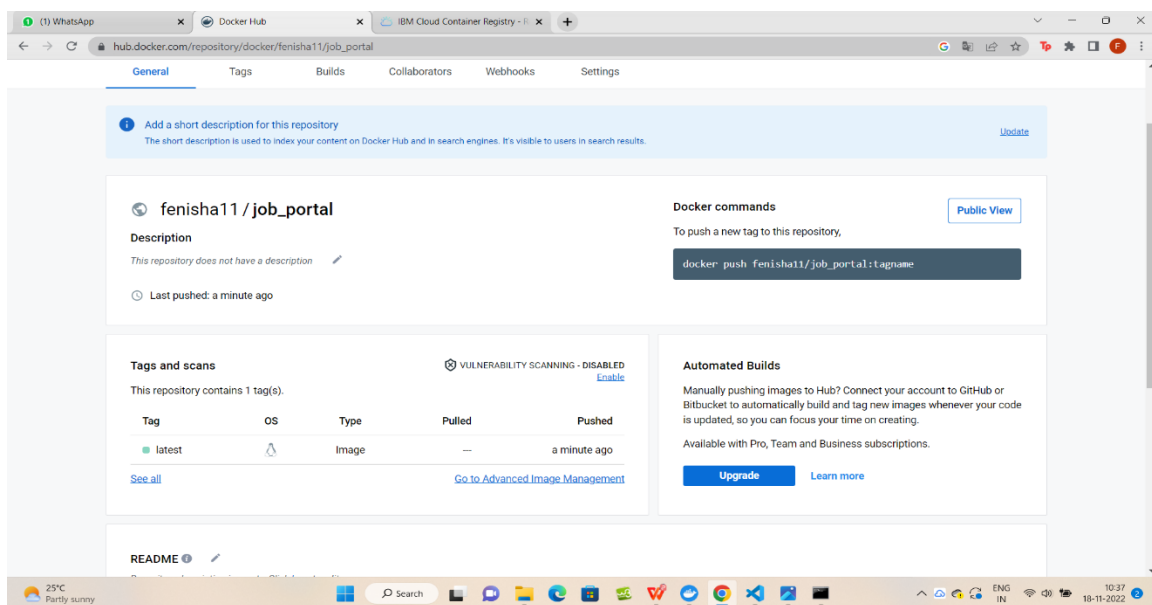
The image shows a VS Code editor with a file explorer on the left and a terminal on the right. The file explorer shows a project structure with files like `requirements.txt`, `app.py`, `deployment.yaml`, `Dockerfile`, `README.md`, `requirements.txt`, `sendemail.py`, and `service.yaml`. The terminal shows the command `sudo docker run -p 8080:8080 8b022ea43a31` and the output of the Flask application, which includes a warning about using a development server and a list of GET requests for static files.

```
File Edit Selection View Go Run Terminal Help
EXPLORER
  IBM
    Assignment
    JOB PORTAL
      static
      templates
      app.py 2, U
    CAD
    deployment.yaml U
    DigiCertGlobalRootCA... U
    Dockerfile U
    README.md U
    requirements.txt U
    sendemail.py U
    service.yaml U
  Project design and planning
  Sample programs
    assignment 2
      static
      templates
      app.py
      DigiCertGlobalRootCA.crt
      assignment2
    OUTLINE
    TIMELINE

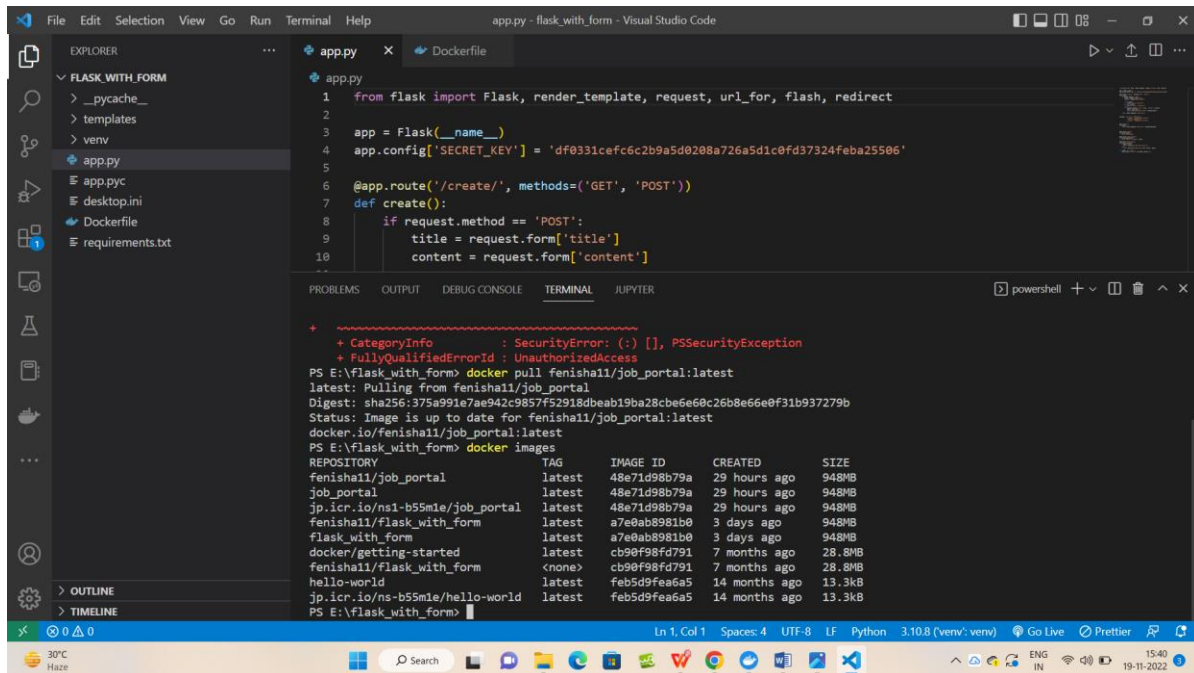
JOB PORTAL > app.py > apply
82
83     return render_template('dashboard.html')
84
85 @app.route('/apply', methods=['GET', 'POST'])
86 def apply():
87     msg = ''
88     if request.method == 'POST':
89         username = request.form['username']
90         email = request.form['email']

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
sudo - JOB PORTAL + - - - - -
(base) maryada@maryada:~/IBM/JOB PORTAL$ ^C
(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.



The screenshot shows the Visual Studio Code interface with a project named 'app.py - flask_with_form'. The Explorer sidebar on the left shows the file structure: `FLASK_WITH_FORM` containing `__pycache__`, `templates`, `venv`, `app.py`, `app.pyc`, `desktop.ini`, `Dockerfile`, and `requirements.txt`. The main editor displays `app.py` with the following code:

```
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']
```

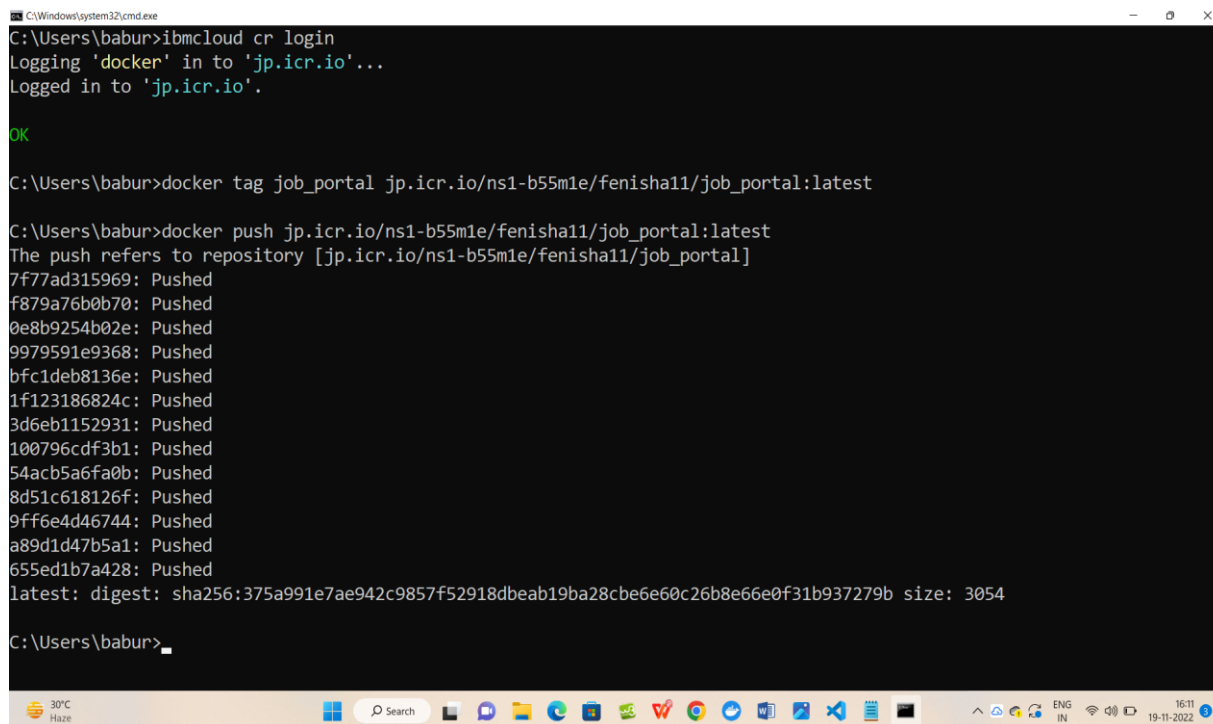
The Dockerfile in the same editor shows the following content:

```
FROM python:3.10.8-slim
WORKDIR /app
COPY . .
RUN pip install --no-cache-dir -r requirements.txt
EXPOSE 5000
CMD ["python", "app.py"]
```

The TERMINAL panel at the bottom shows the output of the following commands:

```
PS E:\flask_with_form> docker pull fenisha11/job_portal:latest
latest: Pulling from fenisha11/job_portal
Digest: sha256:375a991e7ae942c9857f52918dbeab19ba28cbe6e60c26b8e66e0f31b937279b
Status: Image is up to date for fenisha11/job_portal:latest
docker.io/fenisha11/job_portal:latest
PS E:\flask_with_form> docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
fenisha11/job_portal	latest	48e71d98b79a	29 hours ago	948MB
job_portal	latest	48e71d98b79a	29 hours ago	948MB
jp.icr.io/ns1-b55m1e/job_portal	latest	48e71d98b79a	29 hours ago	948MB
fenisha11/flask_with_form	latest	a7e0ab8981b0	3 days ago	948MB
flask_with_form	latest	a7e0ab8981b0	3 days ago	948MB
docker/getting-started	latest	cb90f98fd791	7 months ago	28.8MB
fenisha11/flask_with_form	<none>	cb90f98fd791	7 months ago	28.8MB
hello-world	latest	feb5d9fea6a5	14 months ago	13.3kB
jp.icr.io/ns-b55m1e/hello-world	latest	feb5d9fea6a5	14 months ago	13.3kB



The screenshot shows a Windows command prompt window with the following commands and output:

```
C:\Users\babur>ibmcloud cr login
Logging 'docker' in to 'jp.icr.io'...
Logged in to 'jp.icr.io'.

OK

C:\Users\babur>docker tag job_portal jp.icr.io/ns1-b55m1e/fenisha11/job_portal:latest

C:\Users\babur>docker push jp.icr.io/ns1-b55m1e/fenisha11/job_portal:latest
The push refers to repository [jp.icr.io/ns1-b55m1e/fenisha11/job_portal]
7f77ad315969: Pushed
f879a76b0b70: Pushed
0e8b9254b02e: Pushed
9979591e9368: Pushed
bfc1deb8136e: Pushed
1f123186824c: Pushed
3d6eb1152931: Pushed
100796cdf3b1: Pushed
54acb5a6fa0b: Pushed
8d51c618126f: Pushed
9ff6e4d46744: Pushed
a89d1d47b5a1: Pushed
655ed1b7a428: Pushed
latest: digest: sha256:375a991e7ae942c9857f52918dbeab19ba28cbe6e60c26b8e66e0f31b937279b size: 3054

C:\Users\babur>
```

```
C:\Windows\system32\cmd.exe
C:\Users\babur>ibmcloud login
API endpoint: https://cloud.ibm.com
Region: jp-tok

Email> fenisha1195@gmail.com

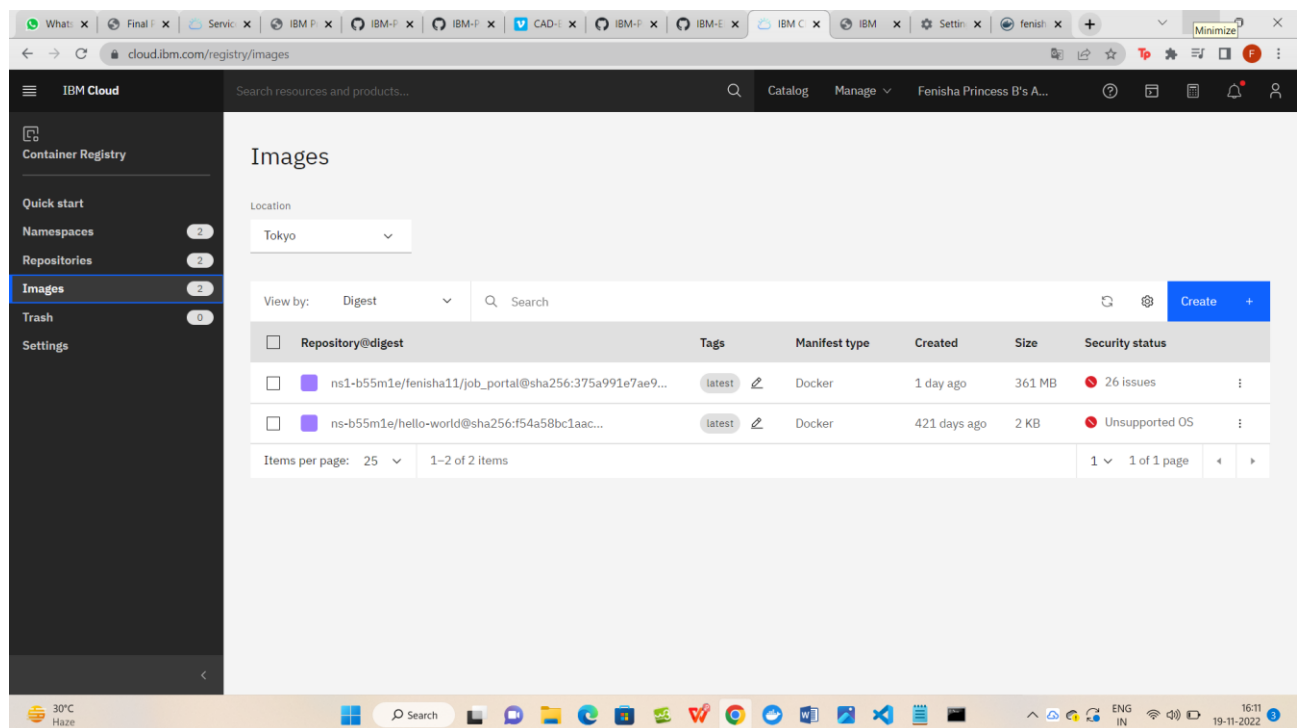
Password>
Authenticating...
OK

Targeted account Fenisha Princess B's Account (9e4f548dde9438e92a22ccd40f171a9)

API endpoint: https://cloud.ibm.com
Region: jp-tok
User: fenisha1195@gmail.com
Account: Fenisha Princess B's Account (9e4f548dde9438e92a22ccd40f171a9)
Resource group: No resource group targeted, use 'ibmcloud target -g RESOURCE_GROUP'
CF API endpoint:
Org:
Space:

C:\Users\babur>ibmcloud plugin
NAME:
  ibmcloud plugin - Manage plug-ins and plug-in repositories

USAGE:
```



IBM Cloud

Container Registry

Quick start

Namespaces2

Repositories2

Images2

Trash0

Settings

Search resources and products...

Namespaces

Location
Tokyo

Resource group: Filter...

Search

Create

	Name	Resource group	Repository count	Image count	Retention policy
▼	ns1-b55m1e	Default	1	1	Retain all images
▼	ns-b55m1e	Default	1	1	Retain all images

Items per page: 251-2 of 2 items

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30°C
Haze

IBM Cloud

Container Registry

Quick start

Namespaces2

Repositories2

Images2

Trash0

Settings

Search resources and products...

Repositories

Location
Tokyo

Search

Create

	Name	Image count	Namespace	Last updated
▼	fenisha11/job_portal jp.lcr.io/ns1-b55m1e/fenisha11/job_portal	1	ns1-b55m1e	1 day ago
▼	hello-world jp.lcr.io/ns-b55m1e/hello-world	1	ns-b55m1e	421 days ago

Items per page: 251-2 of 2 items

11 of 1 page

30°C
Haze

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.

The screenshot shows the IBM Cloud console interface. On the left, a sidebar contains navigation links: IBM Cloud, Kubernetes, Clusters (selected), Reservations, Helm catalog, and Container Registry. The main area is titled 'Kubernetes clusters' and features a table with columns: Name, State, Location, Worker count, Created, Version, and Infrastructure. A single cluster, 'mycluster-free', is listed with a 'Normal' state, 'Milan' location, and '1' worker. A red banner indicates it 'Expires in 27 days'. A 'Create cluster' button is in the top right. The bottom of the screen shows a Windows taskbar with a search bar and various application icons.

Name	State	Location	Worker count	Created	Version	Infrastructure
mycluster-free	Normal	Milan	1	Expires in 27 days	1.24.8_1544	Classic

This screenshot displays the 'Overview' page for the 'mycluster-free' cluster. A prominent warning banner states: 'Expires in 27 days: Be sure to back up your data, your cluster will be deleted in 27 days. To access the full capabilities of the service, try out a standard cluster.' The page includes several status cards: 'Node status' (1 of 1, Normal), 'Add-on status' (0 of 0, Normal), 'Master status' (Normal), and 'Ingress status' (Healthy). Below these is a 'Details' section with a grid of information: Cluster ID (cdsglq1f@tblven1qth0), Version (1.24.8_1544), Infrastructure (Classic), Zones (Milan 01), Created (11/19/2022, 10:27 PM), Resource group (Default), and Image security enforcement (with an 'Enable' button). A 'Node health' section at the bottom shows '1 total nodes'. The left sidebar has links for Overview, Worker nodes, Worker pools, and DevOps (marked as 'New'). The right sidebar contains links for 'Kubernetes dashboard' and 'Actions...'. The Windows taskbar is visible at the bottom.

Node status	Add-on status	Master status	Ingress status
1 of 1 Normal	0 of 0 Normal	Normal	Healthy

Cluster ID	Version	Infrastructure	Zones
cdsglq1f@tblven1qth0	1.24.8_1544	Classic	Milan 01

Created	Resource group	Image security enforcement
11/19/2022, 10:27 PM	Default	Enable

