#### **ASSIGNMENT 4**

### **Database connection**

Date	02 November 2022
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Maximum Marks	2 Marks

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

### App.py

```
from flask import Flask

app=Flask(__name__)

import os

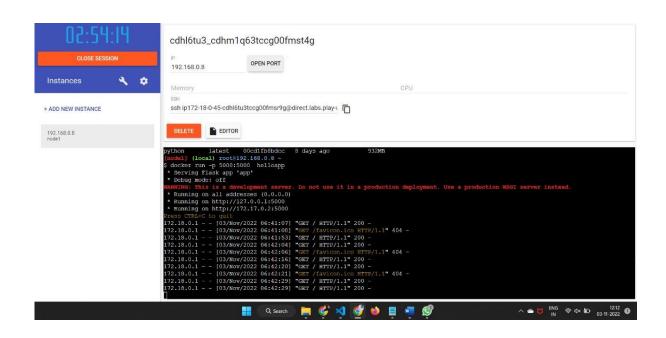
@app.route("/")

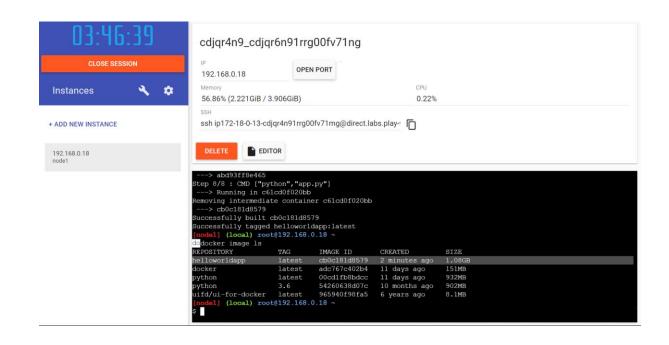
def home():
    return "Hello"

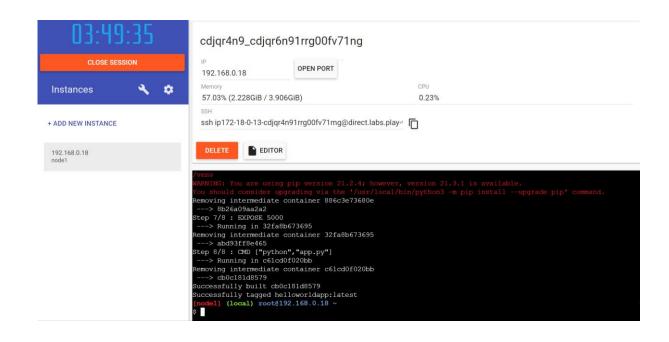
if __name__=="__main__":
    port=int(os.environ.get('PORT',5000))
    app.run(host='0.0.0.0',port=port)
```

#### Docker file

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









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

```
Microsoft Windows [Version 10.0.22621.755]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Barath\Desktop\helloworldapp>docker build -t helloworldapp.

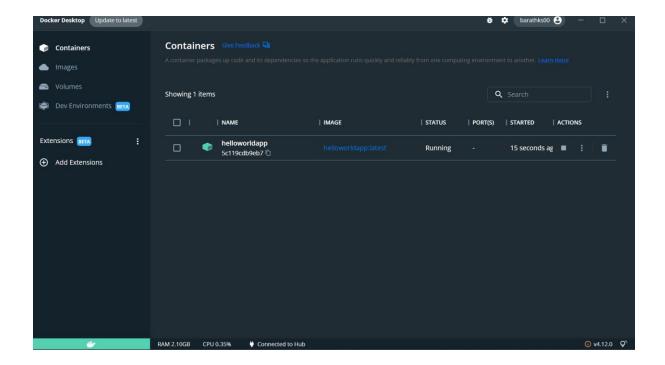
[+] Building 101.1s (12/12) FINISHED

= [internal] load build definition from Dockerfile
=> transferring dockerfile: 2298
=> transferring context: 28
=> [internal] load metadata for docker.io/library/python:3.6
=> [internal] load metadata for docker.io/library/python:3.6
=> [internal] load build dentext
=> transferring context: 28
=> [internal] load build dontext
=> transferring context: 3388
=> [1/6] FROM docker.io/library/python:3.6@sha256:f8652afaf88c25f0d22354d547d892591067aa4026a7fa9a6819df9f300af6
0.0s
=> (ACHED [2/6] WORKOIR /app
=> [1/6] GDPY requirements.txt /app
=> [1/6] GDPY requirements.txt /app
=> [1/6] RUN python3 -m pip install -r requirements.txt
=> exporting to image
=> exporting layers
=> naming to docker.io/library/phelloworldapp

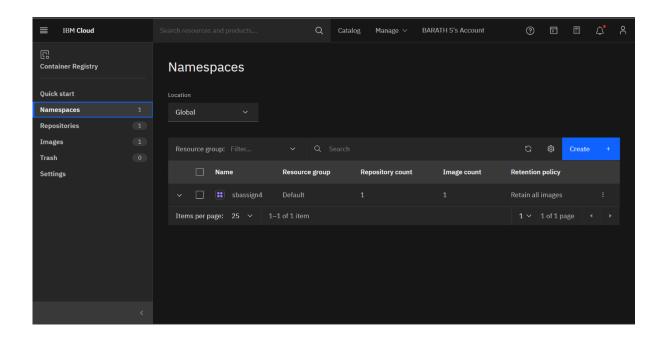
Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them

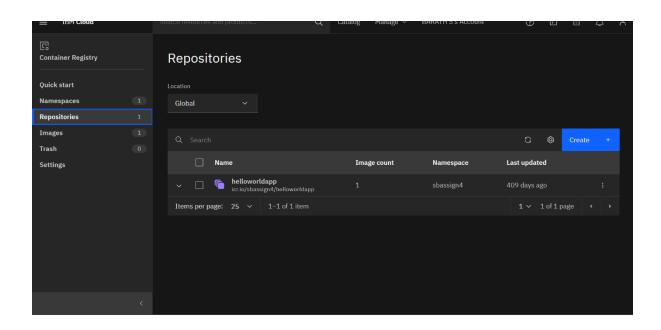
C:\Users\Barath\Desktop\helloworldapp>
```

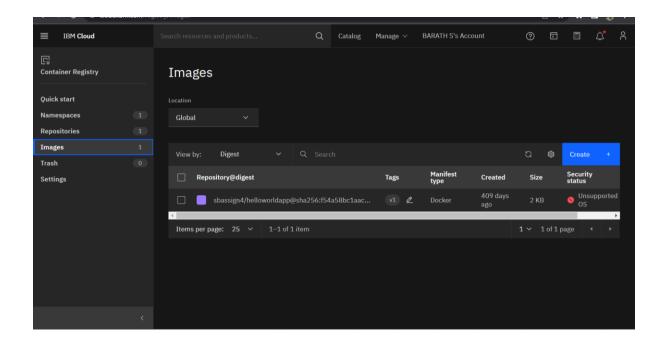
:\Users\Barath\Desktop\helloworldapp>docker images IMAGE ID SIZE REPOSITORY TAG CREATED 2388a5f6ea31 About a minute ago 29 hours ago 1.08GB 1.08GB helloworldapp latest d4e73184e6f8 latest latest locker/getting-started cb90f98fd791 6 months ago 28.8MB



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







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

