ASSIGNMENT 4

Kubernetes / Docker

Date	02.11.2022
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Marks	2 marks

QUESTIONS:

- 1.Pull an Image from docker hub and run it in docker playground.
- 2.Create a docker file for the job portal application and deploy it in Docker desktop application.
- 3. Create a IBM container registry and deploy helloworld app or jobportalapp.
- 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.

SOLUTIONS: -

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

IMAGE PULLED: PYTHON

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)
```

Dockerfile code

FROM python

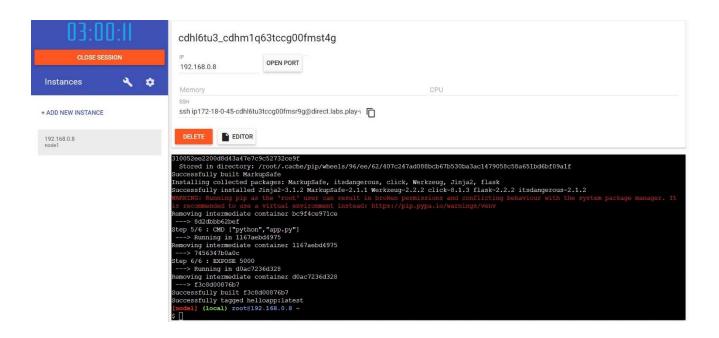
WORKDIR /app

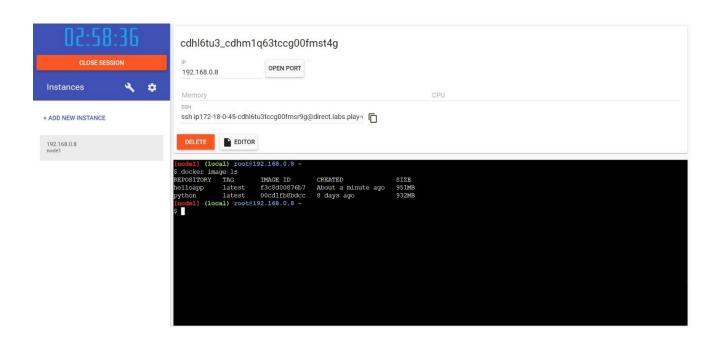
COPY . .

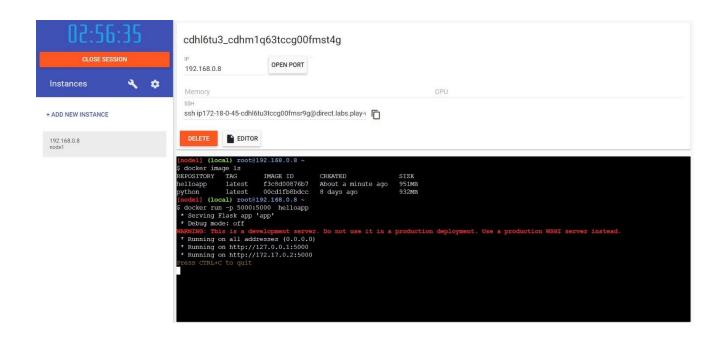
RUN pip install -r requirement.txt

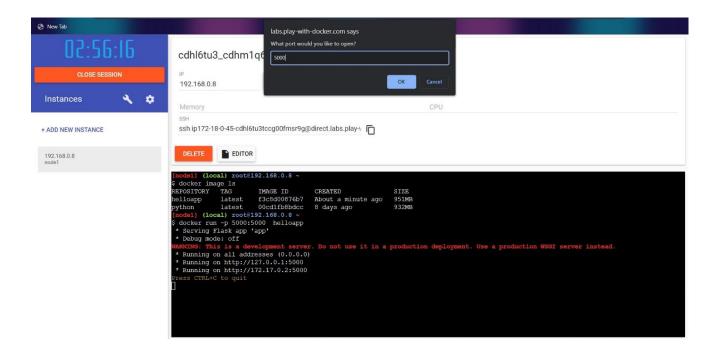
CMD ["python","app.py"]

EXPOSE 5000

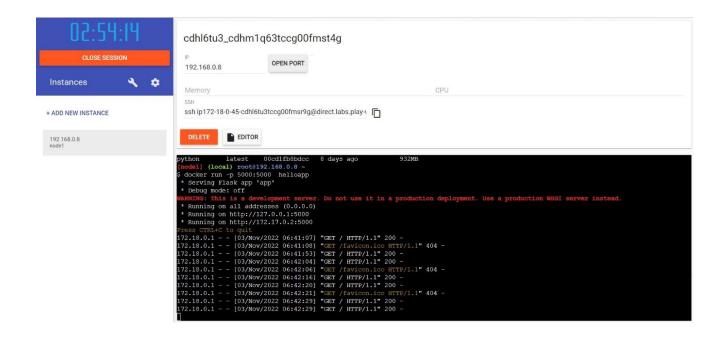








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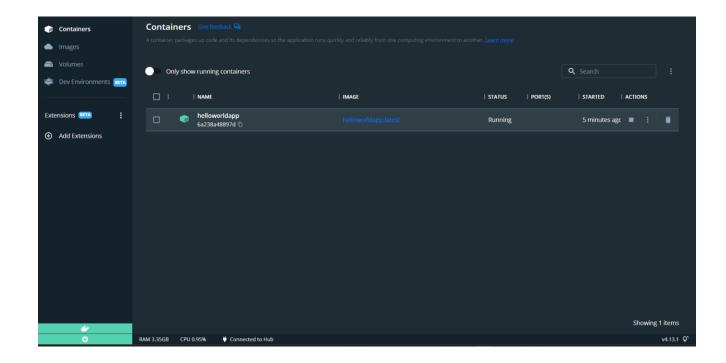


2.Create a docker file for the job portal application and deploy it in Docker desktop application.

```
| CalVindows/System32(cmd.cov) | Calvindows | Version 10.0.22621.755 | Calvindows | Version 10.0.22622.755 |
```

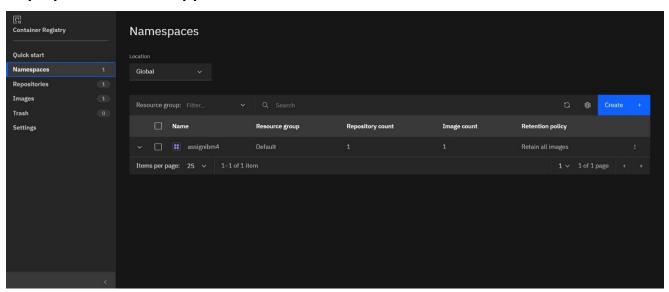
```
C:\Users\aksh\noeDrive\Desktop\helloworldapp>docker images
REPOSITIONY
TAG

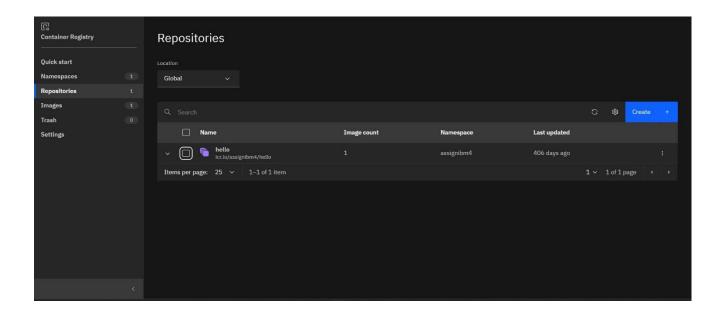
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```

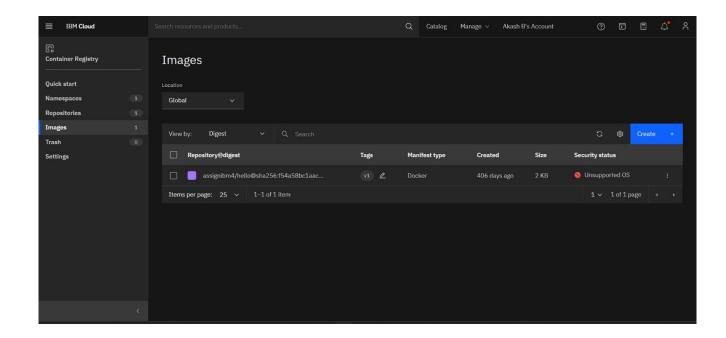


3.Create a IBM container registry and deploy helloworld app or jobportalapp

Deployed: helloworldapp







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.

