

ASSIGNMENT-04

Date	02 November 2022
Student Name	Prapthi.N
Roll Number	821319104024
Maximum Marks	2 Marks

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

Tags and scans

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03:51:24

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.28
node1

cdqsnsu0_cdqsnve0qau0009eda6g

IP
192.168.0.28

OPEN PORT
5000

Memory
28.15% (1.1GiB / 3.906GiB)

CPU
1.21%

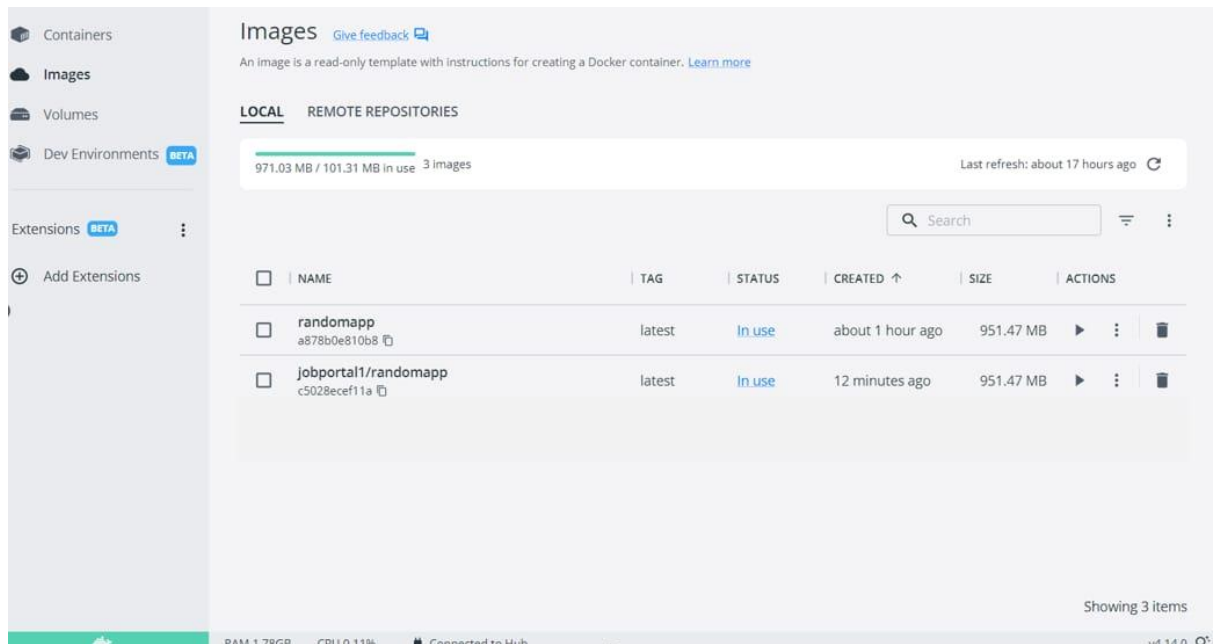
SSH
ssh ip172-18-0-55-cdqsnsu0qau0009eda60@direct.labs.pla

DELETE

EDITOR

```
[node1] (local) root@192.168.0.28 ~
$ docker container run -p 5000:5000
* Serving Flask app 'app'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://172.17.0.2:5000
Press CTRL+C to quit
```

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



app.py

```
from flask import Flask, render_template
app = Flask(__name__)

@app.route('/')
def home():
    return render_template('index.html')
if __name__ == '__main__':
    app.run()
```

Docker file

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

Index.html

```
<html>

<body>
  <div class="col-md-6 offset-md-3 mt-5">

    <br>
    <a target="_blank" href="https://getform.io?ref=codepenHTML" class="mt-3 d-flex">Getform.io | Get your free endpoint now</a>
    <h1>Job Portal</h1>
    <form accept-charset="UTF-8" action="https://getform.io/f/{your-form-endpoint-goes-here}" method="POST" enctype="multipart/form-data" target="_blank">
      <div class="form-group">
        <label for="exampleInputName">Full Name</label>
        <input type="text" name="fullname" class="form-control" id="exampleInputName" placeholder="Enter your name and surname" required="required">
      </div>
      <div class="form-group">
        <label for="exampleInputEmail1" required="required">Email address</label>
        <input type="email" name="email" class="form-control" id="exampleInputEmail1" aria-describedby="emailHelp" placeholder="Enter your email address">
      </div>
      <div class="form-group">
        <label for="inputAddress">Address</label>
        <input type="text" name="address" class="form-control" id="inputAddress" placeholder="1234 Main St">
      </div>
      <div class="form-row">
        <div class="form-group col-md-6">
          <label for="inputCity">City</label>
          <input type="text" name="city" class="form-control" id="inputCity" placeholder="Istanbul">
        </div>
        <div class="form-group col-md-2">
          <label for="inputZip">Zip</label>
          <input type="text" name="zip" class="form-control" id="inputZip" placeholder="34000">
        </div>
      </div>
      <div class="form-group">
        <label for="example-tel-input" class="col-2 col-form-label">Telephone</label>
        <div class="col-10">
```

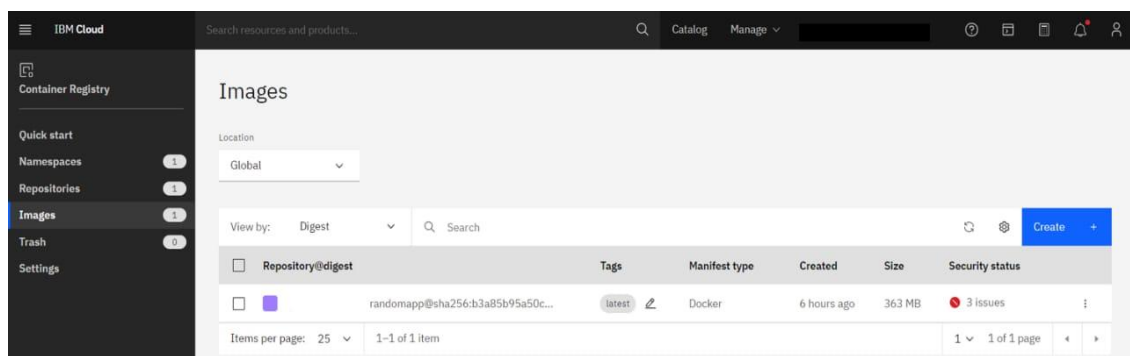
```

        <input class="form-control" name="tel" type="tel" value="1-(555)-
555-5555" id="example-tel-input">
    </div>
</div>
<div class="form-group">
    <label for="example-date-input" class="col-3 col-form-label">Start
Date</label>
    <div class="col-10">
        <input class="form-control" name="starting_date" type="date"
value="2020-02-01" id="example-date-input">
    </div>
</div>
<div class="form-group mt-3">
    <label class="mr-4">Upload your CV:</label>
    <input type="file" name="file">
</div>
    <button type="submit" class="btn btn-primary">Submit</button>
</form>
</div>
</body>

</html>

```

3. Create a IBM Container Registry and deploy hello world app or job portal app



4. Create a Kubernetes cluster in IBM Cloud and deploy hello world image or job portal app and expose the same app to run in nodeport.

