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 rum it in docker playground.

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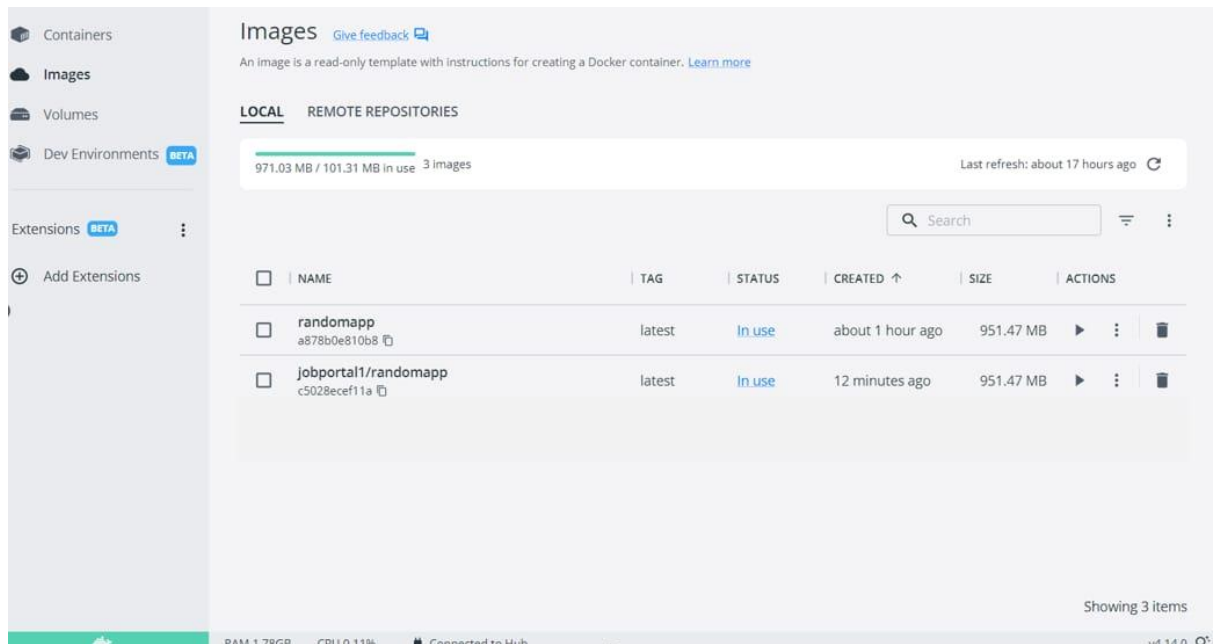
app.py

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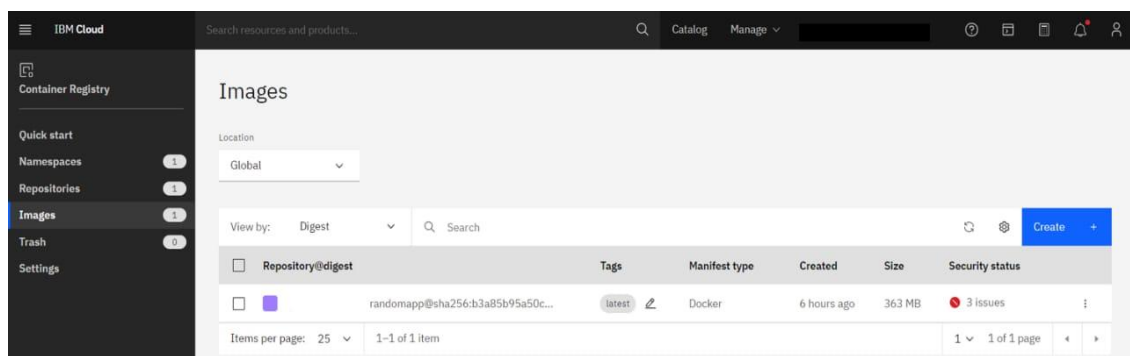
3. Create a IBM Container Registry and deploy hello world app or job portal app

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.