PREPARATION PHASE

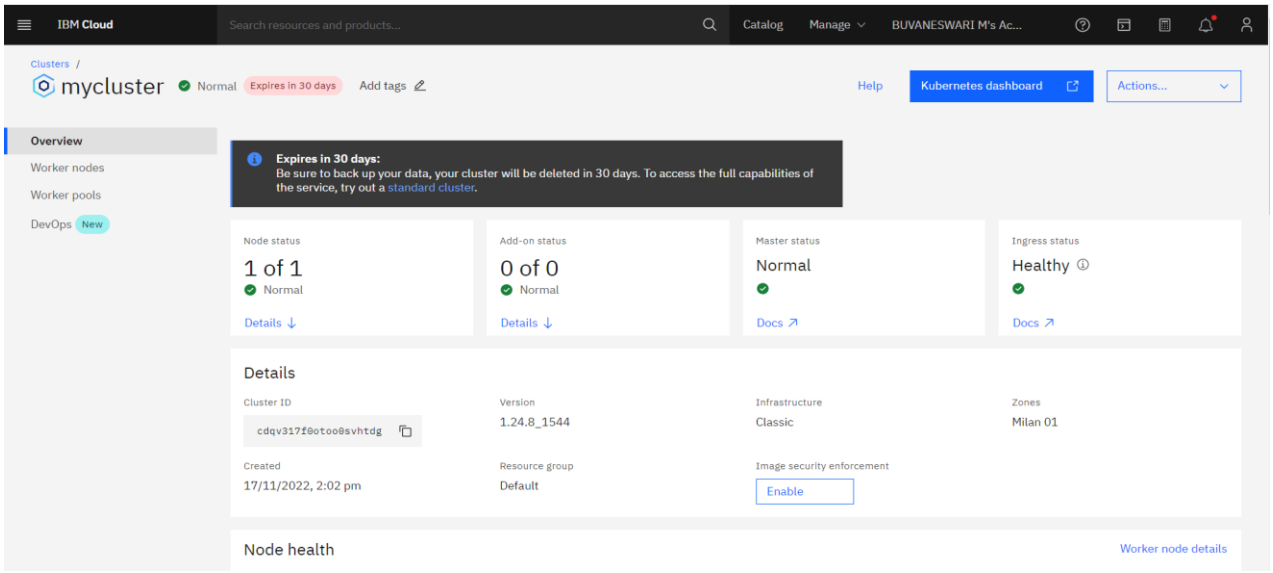
Deployment of App in IBM Cloud

Containerize The App

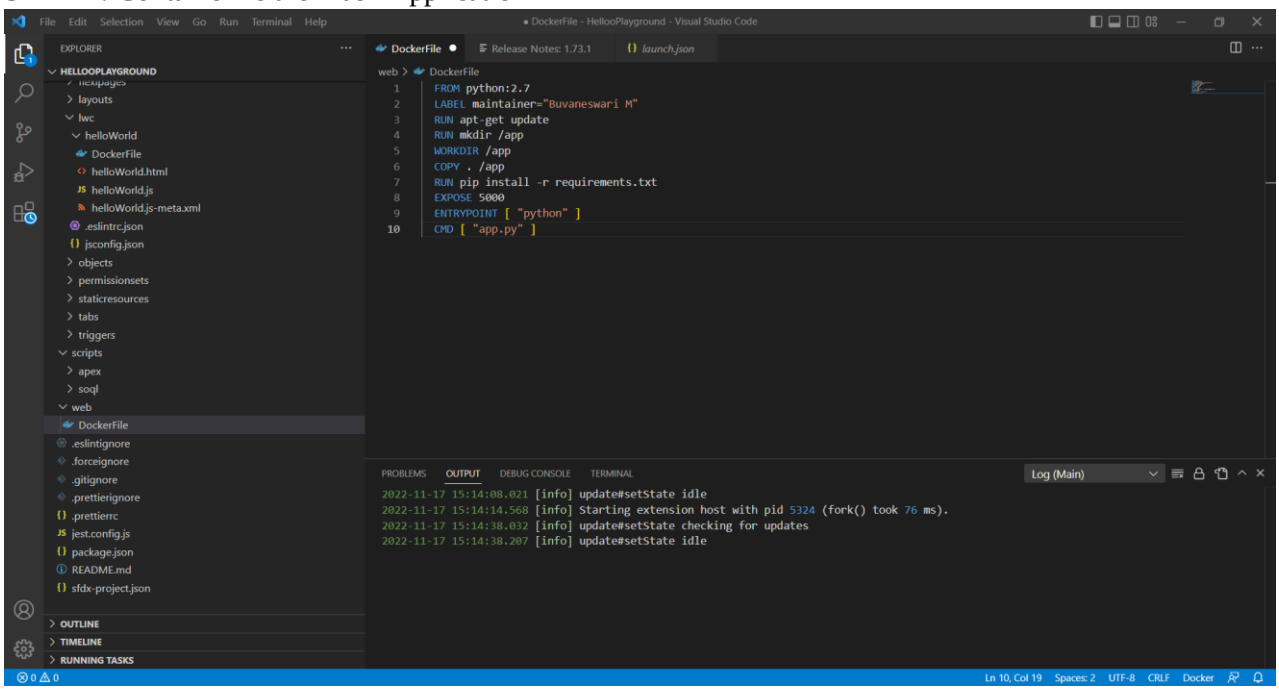
Date	27 August 2022
Team ID	PNT2022TMID26477
Project Name	Personal Expense Tracker Application

1. DOCKER IMAGE CREATION:

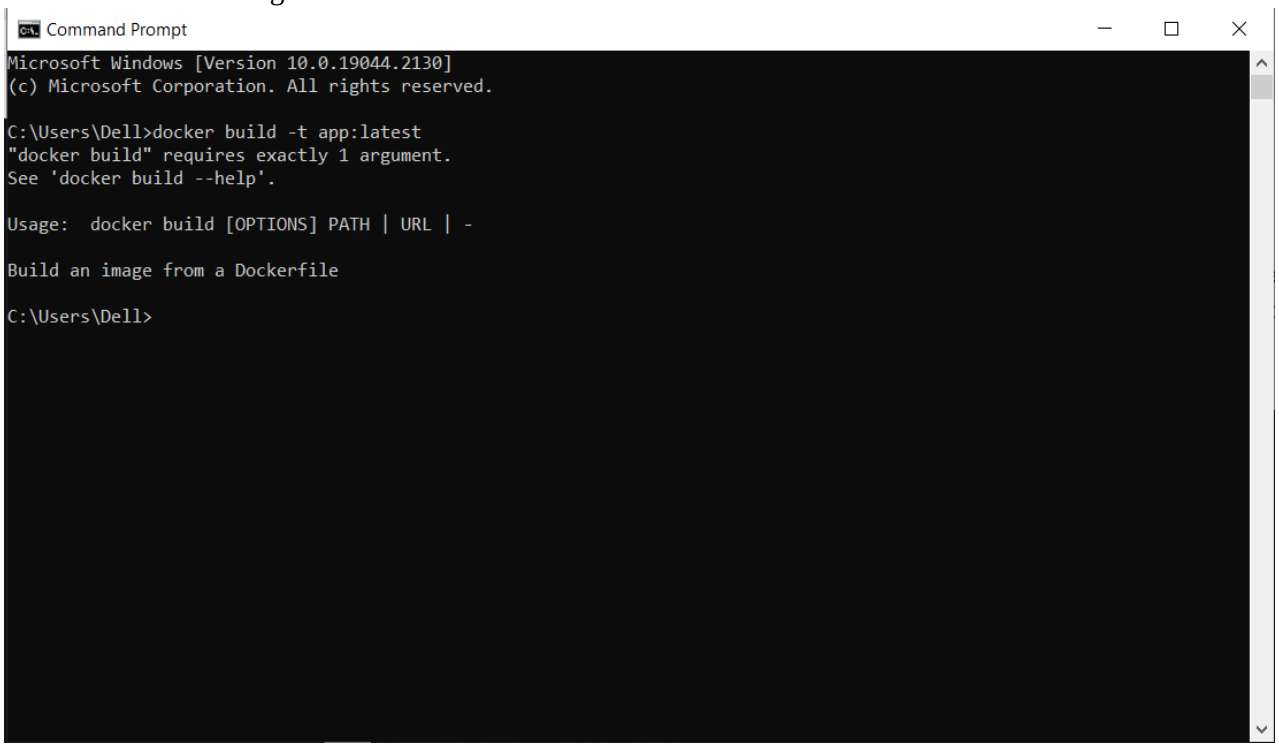
STEP 1: To Create a Kubernets Cluster



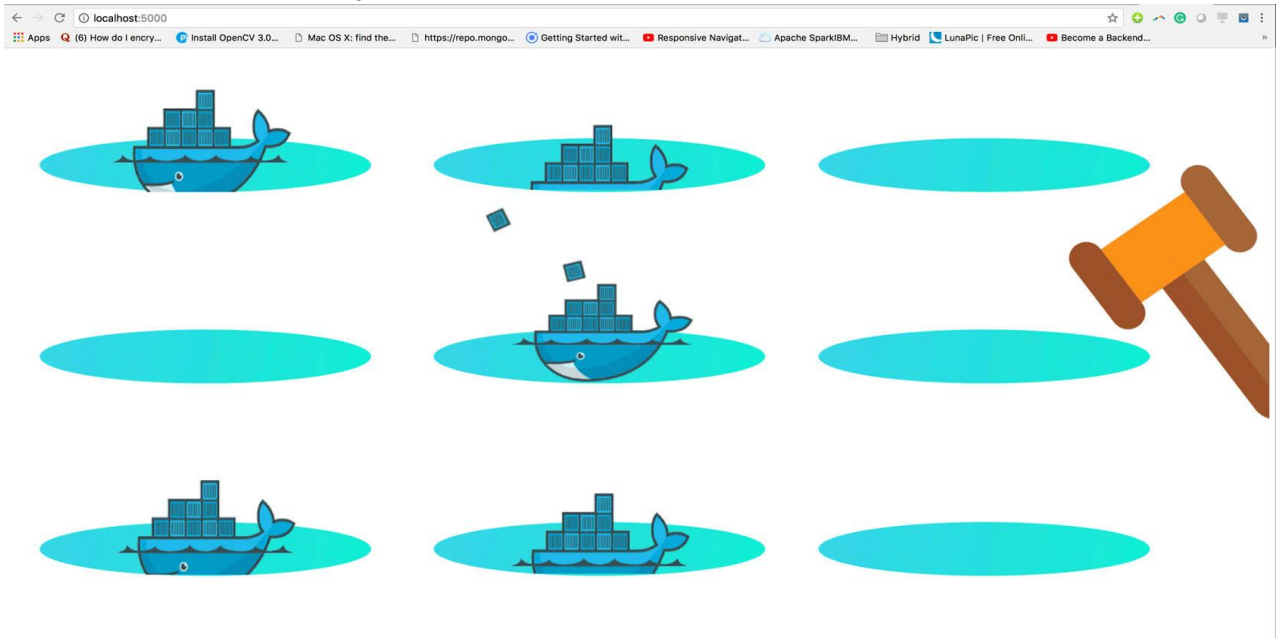
STEP 2: Containerize the Flask Application



STEP 3: Build an Image from Docker File

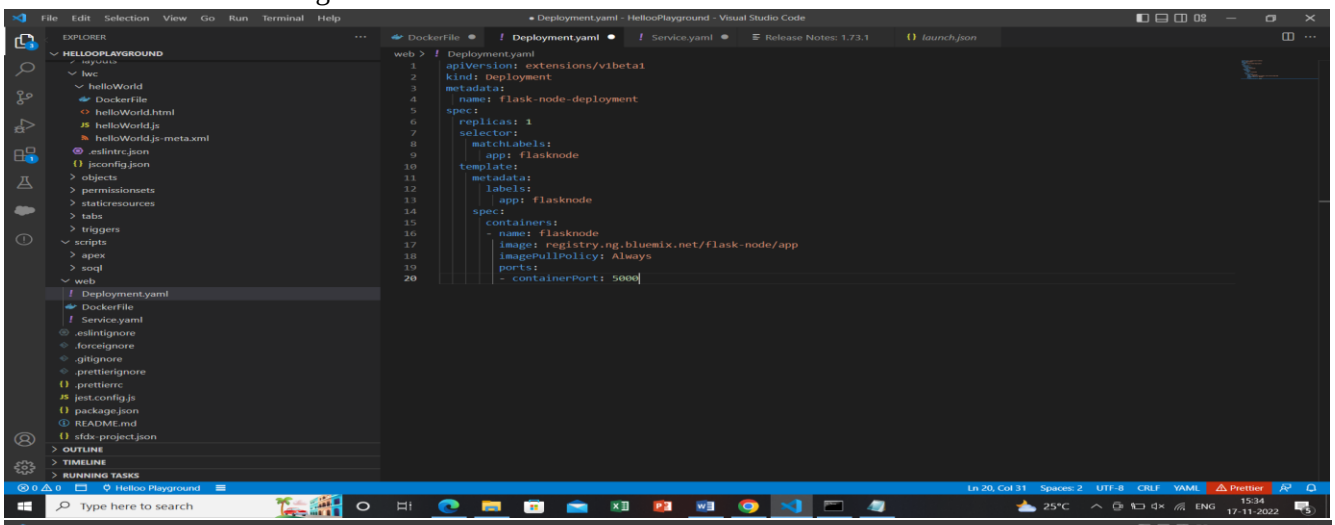


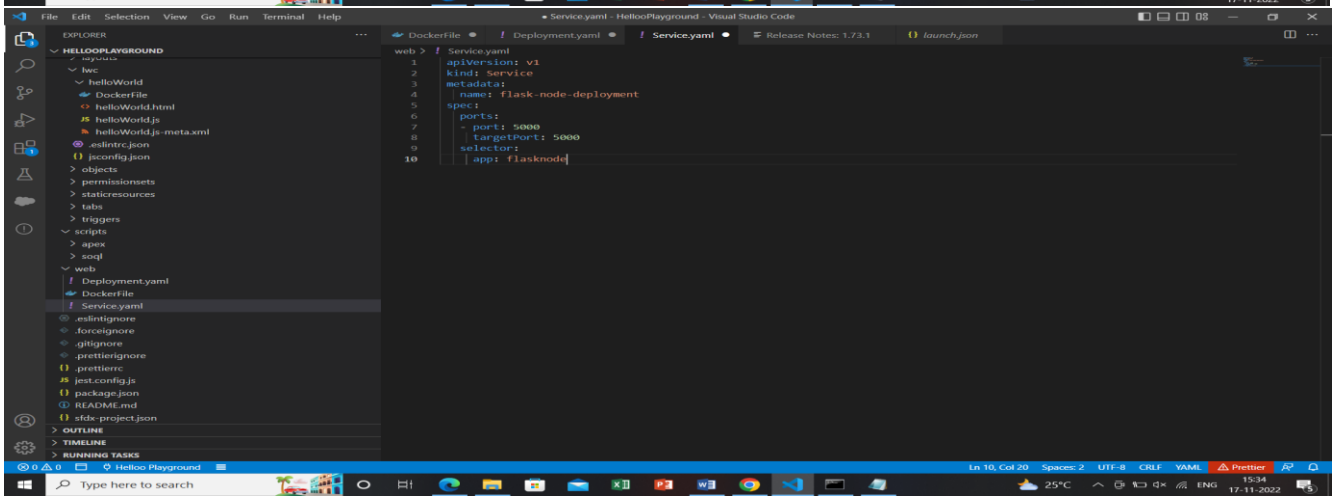
STEP 4: Run the command locally and test



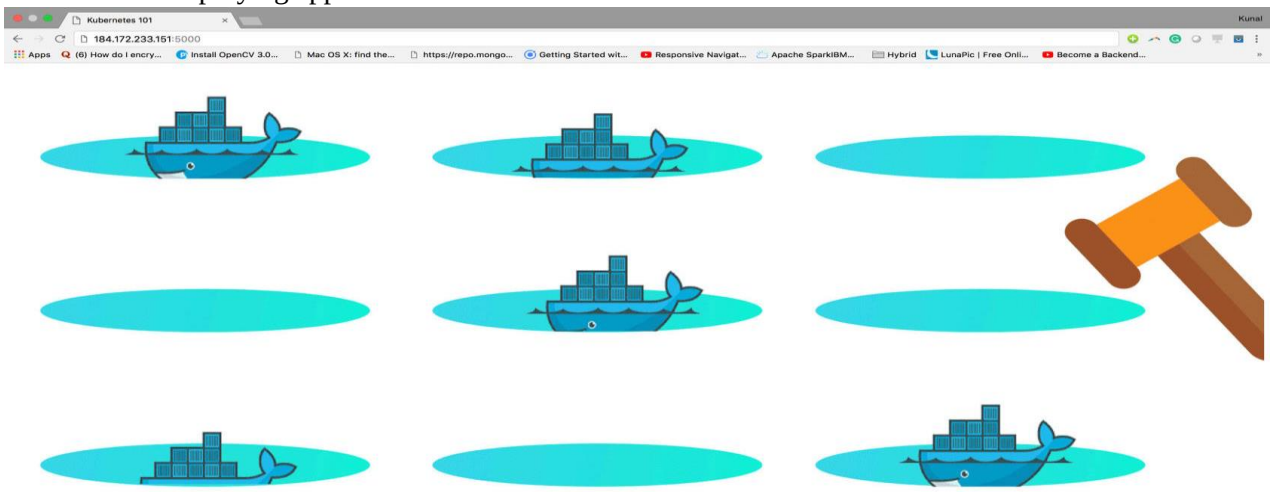
STEP 5: Push the image to the IBM Cloud Registry

STEP 6: Create Configuration files for Kubernets





STEP 7: Deploying application to Kubernetes



2. CREATING DOCKER IMAGE FOR FLASK APP

STEP 1: Make a Project folder
STEP 2: Insert the following code into the Dockerfile created earlier
STEP 3: Copy the following into “requirements.txt” file
STEP 4: Test the flask app
STEP 5: Close the server by pressing CTRL + C
STEP 6: Build the Docker image
STEP 7: Run the docker image
STEP 8: Test Again

CODE:

```python
from flask import Flask
app = Flask(__name__)

@app.route('/')
def hello():
    return "welcome to the flask tutorials"


if __name__ == "__main__":
    app.run(host ='0.0.0.0', port = 5001, debug = True)
```

```
FROM python:alpine3.7
COPY . /app
WORKDIR /app
RUN pip install -r requirements.txt
EXPOSE 5001
ENTRYPOINT [ "python" ]
CMD [ "demo.py" ]
```

OUTPUT: