Dockerfile

# Use official Python image

FROM python:3.10-sli

# Set working directory inside container

WORKDIR /app

# Copy dependency file and install

COPY requirements.txt .

RUN pip install --no-cache-dir -r requirements.txt

# Copy the rest of the app

COPY . .

# Run the app

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

app.py  
from flask import Flask

app = Flask(\_\_name\_\_)

@app.route('/')

def hello():

return "Hello, World!"

if \_\_name\_\_ == '\_\_main\_\_':

app.run(host='0.0.0.0', port=5000)

deployment.yaml

apiVersion: apps/v1

kind: Deployment

metadata:

creationTimestamp: null

labels:

app: bhargav-deploy

name: bhargav-deploy

spec:

replicas: 1

selector:

matchLabels:

app: bhargav-deploy

strategy: {}

template:

metadata:

creationTimestamp: null

labels:

app: bhargav-deploy

spec:

containers:

- image: bhargavakulla/app

name: bhargavakulla

resources: {}

status: {}

requirements.txt

flask

service.yaml

apiVersion: v1

kind: Service

metadata:

creationTimestamp: null

labels:

app: bhargav-deploy

name: bhargav-deploy

spec:

ports:

- port: 80

protocol: TCP

targetPort: 5000

selector:

app: bhargav-deploy

status:

loadBalancer: {}