1) Creating an Image in docker

docker image build -t myhello .

2) Creating and Running a Container

docker container run -p 9999:8888 myhello

3) Creating an image in Docker Hub

docker image tag myhello ravish1608/myhello

4) Push an image in Docker Hub

docker image push ravish1608/myhello

5) Creating an Container and run it in Docker hub.

docker container run -p 9999:8888 ravish1608/myhello

Kubernetes

1) Creating Pods

kubectl run demo --image=ravish1608/myhello --port=9999 --labels app=demo1

2) Forwarding Ports

kubectl port-forward pod/demo 9999:8888

3) Displaying Pods

get pods --selector app=demo1

kubectl get pod

4) Stop or delete pod

kubectl delete pod demo1

```
Dockerfile
# Use the c
```

Use the official Python image from the Docker Hub

```
FROM python:3.9-alpine
```

Set the working directory in the container

```
WORKDIR /usr/src/app
```

Copy the requirements file into the container

```
COPY requirements.txt ./
```

Install any needed packages specified in requirements.txt

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

Copy the rest of the application code into the container

```
COPY..
```

Run the application

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

from flask import Flask

App.py

```
app = Flask(__name__)
@app.route('/')
def hello_world():
    return 'Ravish'
if __name__ == '__main__':
```

app.run(host='0.0.0.0', port=8888)

Requirement.txt

Flask

Werkzeug