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```
# □□□ □□□□ □□
FROM python:3.11

# □□ □□ □□
ENV PYTHONUNBUFFERED 1
ENV PYTHONDONTWRITEBYTECODE 1

# □□ □□□□□ □□
WORKDIR /app

# □□□ □□
COPY requirements.txt .
RUN pip install -r requirements.txt

# □□□□ □□ □□ □□ □□
COPY . .

# □□ □□□□□ □□ □□ □□ □□ □□
EXPOSE 8000

# □ □□□□□ □□ □□ □□ □□ □□□□
CMD ["python", "manage.py", "runserver", "0.0.0.0:8000"]
```

□□□□□□ □ Dockerfile□ □□ □ Docker □□□□□□□ Push □□□

```
# Dockerfile□ □□□□□ □□□□ □□□□ □□
docker build -t django:v2 ./
```

```
# □□□ □□□ □□ □□
docker tag django:v1 waji97/django:v2

# □□ □ □□□ □□□□□□□ □□□
docker push waji97/django:v2
```

□□ □□□ □□ □□□□□ YAML □□□ □□ □□ □□. □□ □□ □□ Deployment □□□□ □□□□ □□□□□□□ Replica□ □□ □□ □□ □□□□ □□ □□ □□□

```
# □□□□ □□ □□ □ □□□ □□ □□ □□ □□
mkdir myapp
cd myapp

# □□□□ □□ □□
vi my-app.yaml

apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app
spec:
  replicas: 3
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
        - name: my-app
          image: waji97/django:v2 □□□# □□ □□□□ □ □□□ □□□
          ports:
            - containerPort: 8000 □□□
---
apiVersion: v1
kind: Service
```

```
metadata:
  name: my-app-service
spec:
  type: NodePort
  selector:
    app: my-app
  ports:
    - protocol: TCP
      port: 80
      targetPort: 8000□□□□□□
```

□□□ YAML□□ □□ □ □ □□□ □□ □□□

```
kubectl apply -f my-app.yaml
deployment.apps/my-app created
service/my-app-service created
```

□□ □ □□ □□ Pod, Deployment □□□ Service□ □□ □ □ □□

```
# Pod □□
kubectl get pods
NAME                  READY   STATUS    RESTARTS   AGE
my-app-74dd96c584-9plfb   1/1     Running   0          30s
my-app-74dd96c584-lf97s   1/1     Running   0          30s
my-app-74dd96c584-tvl2n   1/1     Running   0          30s

# Service □□
kubectl get svc
NAME            TYPE       CLUSTER-IP      EXTERNAL-IP   PORT(S)       AGE
kubernetes      ClusterIP   10.96.0.1       <none>       443/TCP       18d
my-app-service   NodePort    10.110.204.183   <none>       80:30001/TCP   50s

# Deployment □□
kubectl get deployment
NAME     READY   UP-TO-DATE   AVAILABLE   AGE
my-app   3/3     3            3           40s
```

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```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-app
spec:
  replicas: 3
  selector:
    matchLabels:
      app: my-app
  template:
    metadata:
      labels:
        app: my-app
    spec:
      containers:
        - name: my-app
          #image: waji97/django:v2 □□□# □□ □□□□ □ □□□ □□□
          image: waji97/ecommerce:v2  □□# □□ □□□□ □ □□□ □□□
          ports:
            - containerPort: 8000 □□□
---
```

```
apiVersion: v1
kind: Service
metadata:
  name: my-app-service
spec:
  type: NodePort
  selector:
    app: my-app
  ports:
    - protocol: TCP
      port: 80
      targetPort: 8000□□□□□□
```

□□ □□□□ □ YAML□□□ □□ □□□

```
kubectl apply -f my-app.yaml
deployment.apps/my-app configured
service/my-app-service unchanged
```

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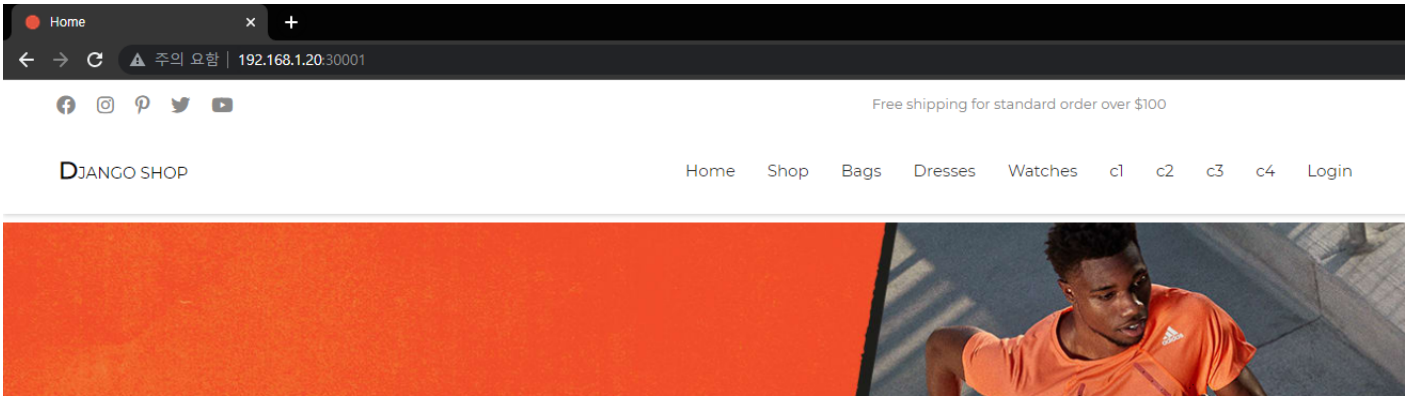

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