

Deployment of App in IBM

Cloud Containerize the App

Date	16 November 2022
Team ID	PNT2022TMID11718
Project Name	Inventory Management System For Retailers

Create a Docker

```
FROM python:2.7
LABEL maintainer="Vasanthakumar, vasanthakumarm@ibm.com"
RUN apt-get update
RUN mkdir /app
WORKDIR /app
COPY . /app
RUN pip install -r requirements.txt
EXPOSE 5000
ENTRYPOINT [ "python" ] CMD [
"app.py" ]
```



Code

```
11   replicas: 2
12   strategy:
13     type: RollingUpdate
14     rollingUpdate:
15       maxSurge: 1
16       maxUnavailable: 0
17   template:
18     metadata:
19       labels:
20         app: example-app
21     spec:
22       containers:
23       - name: example-app
24         image: aimvector/python:1.0.0
25         imagePullPolicy: Always
26         ports:
27         - containerPort: 5000
28       resources:
29         requests:
30           memory: "64Mi"
31           cpu: "50m"
32         limits:
33           memory: "256Mi"
```

```
25     imagePullPolicy: Always
26     ports:
27     - containerPort: 5000
28     resources:
29       requests:
30         memory: "64Mi"
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
PS C:\git\python> kubectl apply -f .\kubernetes\deployments\deployment.yaml
deployment.apps/example-deploy created
PS C:\git\python> kubectl get deploy
NAME                READY   UP-TO-DATE   AVAILABLE   AGE
example-deploy      2/2     2            2           10s
PS C:\git\python> kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
example-deploy-d566cf9bc-nzlqk      1/1     Running   0           29s
example-deploy-d566cf9bc-wmph8      1/1     Running   0           29s
PS C:\git\python> 
```