

Deployment of App in IBM

Cloud Containerize the App

Date	08 November 2022
Team ID	PNT2022TMID13508
Project Name	Inventory Management System For Retailers

Create a Docker



Code

```
FROM python:2.7
LABEL maintainer="Kunal Malhotra, kunal.malhotra1@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" ]
```

```

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>

```