

## Deployment of App in IBM Cloud Containerize of App

Date	08 November 2022
Team ID	PNT2022TMID02555
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>

```