

## Deploy in Kubernetes

|              |                          |
|--------------|--------------------------|
| Team ID      | PNT2022TMID40995         |
| Project Name | Plasma Donor Application |

```
C:\Users\admin\Documents\IBM\dockers\k8s-flask-tutorial>kubectl -n kubernetes-dashboard get pods
NAME                                READY   STATUS    RESTARTS   AGE
dashboard-metrics-scraper-64bcc67c9c-c4sfb  1/1     Running   7 (5h32m ago)  2d12h
flask-app-8569bc947b-4dhck              1/1     Running   0           34s
flask-app-8569bc947b-87126              1/1     Running   0           80m
flask-app-8569bc947b-8t7hw              1/1     Running   0           80m
flask-app-8569bc947b-dzmzc              1/1     Running   0           34s
flask-app-8569bc947b-hkxvf              1/1     Running   0           34s
flask-app-8569bc947b-ln8s7              1/1     Running   0           80m
flask-app-8569bc947b-q2grj              1/1     Running   0           80m
flask-app-8569bc947b-q9txs              1/1     Running   0           34s
flask-app-8569bc947b-w7fr4              1/1     Running   0           34s
flask-app-8569bc947b-wk4tx              1/1     Running   0           80m
kubernetes-dashboard-66c887f759-622rs    1/1     Running   6 (5h32m ago)  2d12h
```

```
C:\Users\admin\Documents\IBM\dockers\k8s-flask-tutorial>kubectl -n kubernetes-dashboard get service
NAME                                TYPE        CLUSTER-IP    EXTERNAL-IP  PORT(S)    AGE
dashboard-metrics-scraper          ClusterIP    10.97.100.223 <none>       8000/TCP   2d13h
flask-app-service                  ClusterIP    10.105.108.32 <none>       5000/TCP   109m
kubernetes-dashboard               ClusterIP    10.100.175.202 <none>       443/TCP    2d13h
```

The screenshot shows the Kubernetes Dashboard interface. The left sidebar contains a navigation menu with categories: Workloads (Cron Jobs, Daemon Sets, Deployments, Jobs, Pods, Replica Sets, Replication Controllers, Stateful Sets), Service (Ingresses, Ingress Classes, Services), and Config and Storage (Config Maps, Persistent Volume Claims, Secrets, Storage Classes). The main panel displays the details for the 'flask-app-service' in the 'kubernetes-dashboard' namespace. It includes a 'Metadata' section with fields for Name, Namespace, Created, Age, and UID, and an 'Annotations' section. The 'Resource information' section shows the Type as 'ClusterIP', Cluster IP as '10.105.108.32', and Session Affinity as 'None'. The 'Endpoints' section shows a table with Host, Ports, Node, and Ready status.

| Host      | Ports (Name, Port, Protocol) | Node           | Ready |
|-----------|------------------------------|----------------|-------|
| 10.1.0.41 | <unset>.5000.TCP             | docker-desktop | true  |
| 10.1.0.42 | <unset>.5000.TCP             | docker-desktop | true  |