

k8s service

```
[sriha@MacBook-Air-2 Downloads % docker run -d -p 5050:5020 sriharshaperi/sentiment-analysis-logic
eda89734470ecb0c4dbde5de229272649c307f423bbaae2b51afbc7b9241c582
sriha@MacBook-Air-2 Downloads %
```

```
[sriha@MacBook-Air-2 Downloads % docker run -d -p 3068:3069 -e "SA_LOGIC_API_URL=http://localhost:5020" sriharshaperi/sa-sb
8e134070498f4f8f8e767f848ec4d82cf63780c7adedb01eb1b5057b088aced7
sriha@MacBook-Air-2 Downloads %
```

```
[sriha@MacBook-Air-2 Downloads % docker run -d -p 8085:80 sriharshaperi/sentiment-analysis-frontend
b32a07b82db8fb2fb597e0d5bee1844eed8c20f23e6b54d56e8acda2152822d
sriha@MacBook-Air-2 Downloads %
```

```
[sriha@MacBook-Air-2 ~ % kubectl get nodes
NAME                STATUS    ROLES    AGE   VERSION
docker-desktop      Ready     control-plane 15d   v1.25.0
sriha@MacBook-Air-2 ~ %
```

```
[sriha@MacBook-Air-2 ~ % kubectl get services
NAME                TYPE          CLUSTER-IP    EXTERNAL-IP    PORT(S)    AGE
kubernetes          ClusterIP     10.96.0.1     <none>          443/TCP    15d
sriha@MacBook-Air-2 ~ %
```

```
[sriha@MacBook-Air-2 ~ % kubectl get deployments
No resources found in default namespace.
sriha@MacBook-Air-2 ~ %
```

```
[sriha@MacBook-Air-2 Kubernetes % kubectl get pods
NAME                READY    STATUS    RESTARTS    AGE
sa-frontend         1/1     Running   0            2m40s
sriha@MacBook-Air-2 Kubernetes %
```

```
[sriha@MacBook-Air-2 Kubernetes % kubectl create -f sa-frontend-pod.yaml
pod/sa-frontend created
sriha@MacBook-Air-2 Kubernetes %
```

```
[sriha@MacBook-Air-2 Kubernetes % kubectl create -f service-sa-frontend-lb.yaml
service/sa-frontend-lb created
[sriha@MacBook-Air-2 Kubernetes % kubectl get svc
NAME                TYPE          CLUSTER-IP    EXTERNAL-IP    PORT(S)    AGE
kubernetes          ClusterIP     10.96.0.1     <none>          443/TCP    16d
sa-frontend-lb      LoadBalancer 10.105.234.21 localhost      80:30922/TCP 19s
sriha@MacBook-Air-2 Kubernetes %
```

```
[sriha@MacBook-Air-2 Kubernetes % kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
sa-frontend-54cdcc4bdf-vr7gn        1/1     Running   0           93s
sa-frontend-54cdcc4bdf-w8wgg        1/1     Running   0           93s
sriha@MacBook-Air-2 Kubernetes %
```

```
[sriha@MacBook-Air-2 Kubernetes % kubectl port-forward sa-frontend-54cdcc4bdf-9mbbr 8081:80
Forwarding from 127.0.0.1:8081 -> 80
Forwarding from [::1]:8081 -> 80
```

```
[sriha@MacBook-Air-2 Kubernetes % kubectl apply -f sa-webapp-deployment.yaml
deployment.apps/sa-web-app created
[sriha@MacBook-Air-2 Kubernetes % kubectl apply -f service-sa-web-app-lb.yaml
service/sa-web-app-lb created
sriha@MacBook-Air-2 Kubernetes %
```

```
[sriha@MacBook-Air-2 Kubernetes % kubectl apply -f sa-logic-deployment.yaml
deployment.apps/sa-logic created
[sriha@MacBook-Air-2 Kubernetes % kubectl apply -f service-sa-logic.yaml
service/sa-logic-lb created
sriha@MacBook-Air-2 Kubernetes %
```

```
[sriha@MacBook-Air-2 Kubernetes % kubectl get services
NAME                TYPE           CLUSTER-IP      EXTERNAL-IP      PORT(S)          AGE
kubernetes           ClusterIP      10.96.0.1        <none>            443/TCP           16d
sa-frontend-lb       LoadBalancer  10.98.44.113     localhost         80:30937/TCP      49m
sa-logic-lb          LoadBalancer  10.102.9.81      <pending>         80:30062/TCP      15m
sa-web-app-lb        LoadBalancer  10.98.206.179    <pending>         80:31818/TCP      92s
```

```
[sriha@MacBook-Air-2 ~ % minikube start
🐳 minikube v1.27.1 on Darwin 12.6 (arm64)
🔧 Automatically selected the docker driver
🔑 Using Docker Desktop driver with root privileges
👍 Starting control plane node minikube in cluster minikube
📡 Pulling base image ...
📦 Downloading Kubernetes v1.25.2 preload ...
> preloaded-images-k8s-v18-v1...: 320.84 MiB / 320.84 MiB 100.00% 10.05 M
> gcr.io/k8s-minikube/kicbase: 348.47 MiB / 348.47 MiB 100.00% 10.87 MiB
> gcr.io/k8s-minikube/kicbase: 0 B [ ] ?% ? p/s 19s
🔥 Creating docker container (CPUs=4, Memory=3072MB) ...
🔧 Preparing Kubernetes v1.25.2 on Docker 20.10.18 ...
  ▪ Generating certificates and keys ...
  ▪ Booting up control plane ...
  ▪ Configuring RBAC rules ...
🔍 Verifying Kubernetes components...
  ▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
🌟 Enabled addons: default-storageclass, storage-provisioner
🏡 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
sriha@MacBook-Air-2 ~ %
```



localhost:39943/testHealth

hello world!

localhost:33769/?webapp=http://localhost:39943

Sentiment Analyser

I love devops

SEND

SENDLOCAL

COMMS SB

COMMS FL

localhost:89/testHealth

Hello from python sentiment analysis flask app!