






Hello World!



```
sam_13@LAPTOP-RQFUSG3F:~$ kubectl delete all --all
The connection to the server 127.0.0.1:32774 was refused - did you specify the right host or port?
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sam_13@LAPTOP-RQFUSG3F:~$ kubectl get pod
The connection to the server 127.0.0.1:32774 was refused - did you specify the right host or port?
sam_13@LAPTOP-RQFUSG3F:~$ minikube status
minikube
type: Control Plane
host: Stopped
kubelet: Stopped
apiserver: Stopped
kubeconfig: Stopped

sam_13@LAPTOP-RQFUSG3F:~$ minikube start
🐹 minikube v1.35.0 on Ubuntu 24.04 (amd64)
🔧 Using the docker driver based on existing profile
👉 Starting "minikube" primary control-plane node in "minikube" cluster
🐳 Pulling base image v0.0.46 ...
🔄 Restarting existing docker container for "minikube" ...
👤 StartHost failed, but will try again: start: docker start minikube: exit status 1
stdout:
```

c46dff3245a05899617a6f6f/devices.allow: invalid argument: unknown
Error: failed to start containers: minikube

 Restarting existing docker container for "minikube" ...
 Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
 Verifying Kubernetes components...
▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
 Enabled addons: storage-provisioner, default-storageclass
 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
sam_13@LAPTOP-RQFUSG3F:~\$ kubectl delete all --all
pod "my-deploy-67d7595d74-9fdql" deleted
service "kubernetes" deleted
service "my-service" deleted
deployment.apps "my-deploy" deleted
sam_13@LAPTOP-RQFUSG3F:~\$ kubectl get pod
No resources found in default namespace.
sam_13@LAPTOP-RQFUSG3F:~\$ kubectl get node
NAME STATUS ROLES AGE VERSION
minikube Ready control-plane 24m v1.32.0
sam_13@LAPTOP-RQFUSG3F:~\$ kubectl get deploy
No resources found in default namespace.
sam_13@LAPTOP-RQFUSG3F:~\$ kubectl get services
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 84s
sam_13@LAPTOP-RQFUSG3F:~\$ sudo nano deployment.yml
[sudo] password for sam_13:
sam_13@LAPTOP-RQFUSG3F:~\$ kubectl apply -f deployment.yml
deployment.apps/my-deploy created
service/my-service created
sam_13@LAPTOP-RQFUSG3F:~\$ minikube service my-service

service/my-service created

sam_13@LAPTOP-RQFUSG3F:~\$ minikube service my-service

NAMESPACE	NAME	TARGET PORT	URL
default	my-service	9000	http://192.168.49.2:30002

🔗 Starting tunnel for service my-service.

NAMESPACE	NAME	TARGET PORT	URL
default	my-service		http://127.0.0.1:37803

🌐 Opening service default/my-service in default browser...

👉 http://127.0.0.1:37803

! Because you are using a Docker driver on linux, the terminal needs to be open to run it.

^C 🛑 Stopping tunnel for service my-service.

sam_13@LAPTOP-RQFUSG3F:~\$ kubectl port-forward svc/my-service 9000: 9000

Forwarding from 127.0.0.1:9000 -> 8080

Forwarding from [::1]:9000 -> 8080

Unable to listen on port 9000: Listeners failed to create with the following errors: [unable to create listener: Error listen tcp4 127.0.0.1:9000: bind: address already in use unable to create listener: Error listen tcp6 [::1]:9000: bind: address already in use]

^[[A^[[A^[[A^Csam_13@LAPTOP-RQFUSG3F:~\$ ^C

sam_13@LAPTOP-RQFUSG3F:~\$ sudo nano deployment.yml

sam_13@LAPTOP-RQFUSG3F:~\$ kubectl apply -f deployment.yml

deployment.apps/my-deploy configured

service/my-service configured

sam_13@LAPTOP-RQFUSG3F:~\$ minikube service my-service

|-----|-----|-----|-----|

```
sam_13@LAPTOP-RQFUSG3F:~$ minikube service my-service
```

NAMESPACE	NAME	TARGET PORT	URL
default	my-service	9005	http://192.168.49.2:30002

✨ Starting tunnel for service my-service.

NAMESPACE	NAME	TARGET PORT	URL
default	my-service		http://127.0.0.1:39421

🌐 Opening service default/my-service in default browser...

👉 http://127.0.0.1:39421

! Because you are using a Docker driver on linux, the terminal needs to be open to run it.

^C 🖐 Stopping tunnel for service my-service.

```
sam_13@LAPTOP-RQFUSG3F:~$ kubectl port-forward svc/my-service 9005:9005
```

```
Forwarding from 127.0.0.1:9005 -> 8080
```

```
Forwarding from [::1]:9005 -> 8080
```

```
Handling connection for 9005
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Handling connection for 9005
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Handling connection for 9005
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Handling connection for 9005
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Handling connection for 9005
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Handling connection for 9005
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Handling connection for 9005
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Handling connection for 9005
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Handling connection for 9005
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^C
sam_13@LAPTOP-RQFUSG3F:~$ cat deployment.yml
apiVersion: apps/v1
kind: Deployment
metadata:
  name: my-deploy
  labels:
    name: my-deploy
spec:
  replicas: 1
  selector:
    matchLabels:
      apptype: web-backend
  strategy:
    type: RollingUpdate
  template:
    metadata:
      labels:
        apptype: web-backend
    spec:
      containers:
      - name: my-app
        image: sam1302/simple-web-app:latest
        ports:
        - containerPort: 9005
```

```
---
apiVersion: v1
kind: Service
metadata:
  name: my-service
  labels:
    app: my-service
spec:
  type: NodePort
  ports:
    - port: 9005
      targetPort: 8080
      nodePort: 30002
  selector:
    apptype: web-backend
sam_13@LAPTOP-RQFUSG3F:~$ |
```

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 Evaluation time 

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