

## Minikube start

```
🐾 minikube v1.36.0 on Arch
🌟 Using the docker driver based on existing profile
👉 Starting "minikube" primary control-plane node in "minikube" cluster
🔧 Pulling base image v0.0.47 ...
🔧 Updating the running docker "minikube" container ...
🔧 Preparing Kubernetes v1.33.1 on Docker 28.1.1 ...
🔧 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
```

## Kubectl apply -f webapp.yaml

```
deployment.apps/webapp created
service/webapp-service created
```

## Kubectl get deployments

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
webapp	0/2	2	0	24s

## Kubectl get pods

NAME	READY	STATUS	RESTARTS	AGE
webapp-894cd5756-kdw5j	0/1	CreateContainerConfigError	0	2m21s
webapp-894cd5756-tlfps	0/1	CreateContainerConfigError	0	2m21s

## Kubectl get services

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
kubernetes	ClusterIP	10.96.0.1	<none>	443/TCP	11m
webapp-service	NodePort	10.97.169.77	<none>	80:30080/TCP	2m35s

## Kubectl apply -f configmap.yaml

```
configmap/webapp-config created
```

## Kubectl apply -f webapp.yaml

```
deployment.apps/webapp unchanged
service/webapp-service unchanged
```

## Kubectl get pods

NAME	READY	STATUS	RESTARTS	AGE
webapp-894cd5756-kdw5j	1/1	Running	0	12m
webapp-894cd5756-tlfps	1/1	Running	0	12m

kubectl exec -it <nombre-del-pod> -- printenv PASSWORD

```
seculo123
```

kubectl apply -f config-volume.yaml

```
configmap/html-config created
```

kubectl apply -f webapp-volumen.yaml

```
deployment.apps/webapp-volumen created
```

kubectl expose deployment webapp-volumen --type=NodePort --port=80 --name=webapp-volumen-service

```
service/webapp-volumen-service exposed
```

Minikube service webapp-volume-service

NAMESPACE	NAME	TARGET PORT	URL
default	webapp-volumen-service	80	http://192.168.49.2:32592

```
kubectl delete -f webapp.yaml
deployment.apps "webapp" deleted
service "webapp-service" deleted
```

```
kubectl delete -f configmap.yaml
configmap "webapp-config" deleted
```

```
kubectl delete -f secret.yaml
secret "webapp-secret" deleted
```

```
kubectl delete -f config-volume.yaml
configmap "html-config" deleted
```

```
kubectl delete -f webapp-volumen.yaml
deployment.apps "webapp-volumen" deleted
```

```
kubectl delete service webapp-service
Error from server (NotFound): services "webapp-service" not found
```

```
kubectl delete service webapp-volumen-service
service "webapp-volumen-service" deleted
```

## Â¡Hola desde un volumen en Kubernetes!

Kubectl get pods

NAME	READY	STATUS	RESTARTS	AGE
auth-service-7df446bdbb-q276j	0/1	Error	2 (32s ago)	78s
db1-dbd647-d75dx	1/1	Running	0	101s
db2-pvc-5cc595955-lg6zf	1/1	Running	0	92s
pais-service-796bb57fcc-ccdxl	0/1	CrashLoopBackOff	2 (17s ago)	85s

Kubectl get svc

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
auth-service	ClusterIP	10.101.57.122	<none>	8080/TCP	89s
db1	ClusterIP	10.108.237.48	<none>	5432/TCP	112s
db2-pvc	ClusterIP	10.106.55.124	<none>	5432/TCP	103s
pais-service	ClusterIP	10.99.132.76	<none>	8080/TCP	96s

kubectl port-forward svc/pais-service 8082:8080

```
Forwarding from 127.0.0.1:8082 -> 8080
Forwarding from [::1]:8082 -> 8080
Handling connection for 8082
```