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[ganxito@archlinux Kubernetes nivel intermedio]$ 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
[ganxito@archlinux Kubernetes nivel intermedio]$ kubectl apply -f webapp.yaml
deployment.apps/webapp created
service/webapp-service created
[ganxito@archlinux Kubernetes nivel intermedio]$ kubectl get deployments
NAME          READY   UP-TO-DATE   AVAILABLE   AGE
webapp        0/2     2            0           24s
[ganxito@archlinux Kubernetes nivel intermedio]$ kubectl get pods
NAME          READY   STATUS              RESTARTS   AGE
webapp-894cd5756-kdw5j  0/1     CreateContainerConfigError  0           2m21s
webapp-894cd5756-tlfps  0/1     CreateContainerConfigError  0           2m21s
[ganxito@archlinux Kubernetes nivel intermedio]$ 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
[ganxito@archlinux Kubernetes nivel intermedio]$

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[ganxito@archlinux Kubernetes nivel intermedio]$ kubectl apply -f configmap.yaml
configmap/webapp-config created
[ganxito@archlinux Kubernetes nivel intermedio]$ kubectl apply -f webapp.yaml
deployment.apps/webapp unchanged
service/webapp-service unchanged
[ganxito@archlinux Kubernetes nivel intermedio]$

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[ganxito@archlinux Kubernetes nivel intermedio]$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
webapp-894cd5756-kdw5j  1/1     Running   0           12m
webapp-894cd5756-tlfps  1/1     Running   0           12m

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[ganxito@archlinux Kubernetes nivel intermedio]$ kubectl exec -it webapp-894cd5756-kdw5j -- printenv SALUDO
¡Hola desde Kubernetes!
[ganxito@archlinux Kubernetes nivel intermedio]$

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[ganxito@archlinux Kubernetes nivel intermedio]$ kubectl apply -f secret.yaml
secret/webapp-secret unchanged
[ganxito@archlinux Kubernetes nivel intermedio]$ kubectl apply -f webapp.yaml
deployment.apps/webapp unchanged
service/webapp-service unchanged
[ganxito@archlinux Kubernetes nivel intermedio]$ kubectl get pods
NAME          READY   STATUS    RESTARTS   AGE
webapp-894cd5756-kdw5j  1/1     Running   0           16m
webapp-894cd5756-tlfps  1/1     Running   0           16m

```

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[ganxito@archlinux Kubernetes nivel intermedio]$ kubectl exec -it webapp-894cd5756-kdw5j -- printenv PASSWORD
secur0123
[ganxito@archlinux Kubernetes nivel intermedio]$

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[ganxito@archlinux Kubernetes nivel intermedio]$ kubectl apply -f config-volume.yaml
configmap/html-config created
[ganxito@archlinux Kubernetes nivel intermedio]$ kubectl apply -f webapp-volumen.yaml
deployment.apps/webapp-volumen created

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[ganxito@archlinux Kubernetes nivel intermedio]$ kubectl expose deployment webapp-volumen --type=NodePort --port=80 --name=webapp-volumen-service
service/webapp-volumen-service exposed
[ganxito@archlinux Kubernetes nivel intermedio]$

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[ganzito@archlinux Kubernetes nivel intermedio]$ minikube service webapp-volumen-service
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NAMESPACE	NAME	TARGET PORT	URL
default	webapp-volumen-service	80	http://192.168.49.2:32592

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🔗 Opening service default/webapp-volumen-service in default browser...
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[ganzito@archlinux Kubernetes nivel intermedio]$ kubectl delete -f webapp.yaml
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```
deployment.apps "webapp" deleted
```

```
service "webapp-service" deleted
```

```
[ganzito@archlinux Kubernetes nivel intermedio]$ kubectl delete -f configmap.yaml
```

```
configmap "webapp-config" deleted
```

```
[ganzito@archlinux Kubernetes nivel intermedio]$ kubectl delete -f secret.yaml
```

```
secret "webapp-secret" deleted
```

```
[ganzito@archlinux Kubernetes nivel intermedio]$ kubectl delete -f config-volume.yaml
```

```
configmap "html-config" deleted
```

```
[ganzito@archlinux Kubernetes nivel intermedio]$ kubectl delete -f webapp-volumen.yaml
```

```
deployment.apps "webapp-volumen" deleted
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[ganzito@archlinux Kubernetes nivel intermedio]$ kubectl delete service webapp-service
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```
Error from server (NotFound): services "webapp-service" not found
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[ganzito@archlinux Kubernetes nivel intermedio]$ kubectl delete service webapp-volumen-service
```

```
service "webapp-volumen-service" deleted
```

```
← → ↻ 🔒 192.168.49.2:32592 ☆
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Â¡Hola desde un volumen en Kubernetes!

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[ganzito@archlinux Kubernetes nivel intermedio]$ cd ./k8s-auth-demo/
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[ganzito@archlinux k8s-auth-demo]$ kubectl apply -f namespace.yaml
```

```
namespace/auth-demo created
```

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[ganzito@archlinux k8s-auth-demo]$ kubectl config set-context --current --namespace=auth-demo  
Context "minikube" modified.
```

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⊗ [ganzito@archlinux k8s-auth-demo]$ kubectl apply -f db1.yaml
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```
error: the path "db1.yaml" does not exist
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```
[ganzito@archlinux k8s-auth-demo]$ kubectl apply -f db1.yaml
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```
persistentvolumeclaim/db1-pvc created
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```
service/db1 created
```

```
deployment.apps/db1 created
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```
[ganzito@archlinux k8s-auth-demo]$ kubectl apply -f db2.yaml
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```
persistentvolumeclaim/db2-pvc-pvc created
```

```
service/db2-pvc created
```

```
deployment.apps/db2-pvc created
```

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[ganzito@archlinux k8s-auth-demo]$ kubectl apply -f pais-service.yaml
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```
service/pais-service created
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```
deployment.apps/pais-service created
```

```
[ganzito@archlinux k8s-auth-demo]$ kubectl apply -f auth-service.yaml
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```
service/auth-service created
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```
deployment.apps/auth-service created
```

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[ganzito@archlinux k8s-auth-demo]$
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• [ganzito@archlinux k8s-auth-demo]\$ 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

• [ganzito@archlinux k8s-auth-demo]\$ 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

○ [ganzito@archlinux k8s-auth-demo]\$

○ [ganzito@archlinux k8s-auth-demo]\$ 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