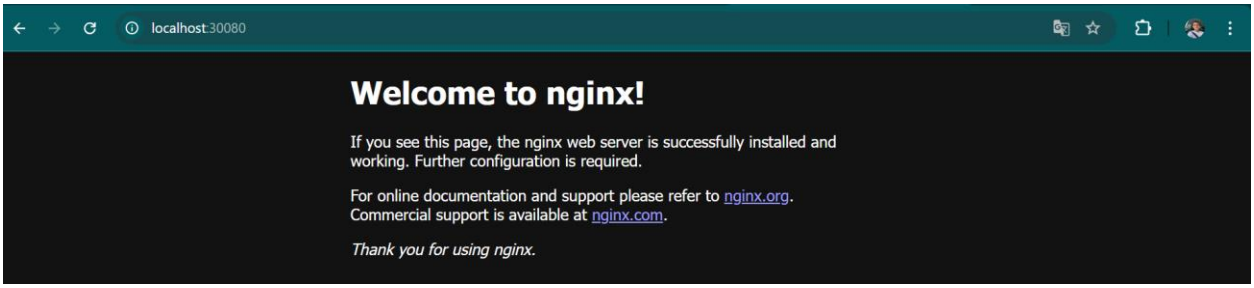
Aplicar archivo y rectificar:

```
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl apply -f webapp.yaml
deployment.apps/webapp created
service/webapp-service created
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl get deployments
>> kubectl get pods
>> kubectl get services
NAME     READY   UP-TO-DATE   AVAILABLE   AGE
webapp   0/2     2            0           27s
NAME                      READY   STATUS                       RESTARTS   AGE
webapp-894cd5756-vgltd    0/1     CreateContainerConfigError   0          27s
webapp-894cd5756-xmfcp    0/1     CreateContainerConfigError   0          27s
NAME            TYPE        CLUSTER-IP      EXTERNAL-IP   PORT(S)        AGE
kubernetes      ClusterIP   10.96.0.1       <none>        443/TCP        18m
```

```
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl get pods
NAME                      READY   STATUS    RESTARTS   AGE
webapp-869b646d9f-8vwvj   1/1     Running   0          24s
webapp-869b646d9f-nd9sm   1/1     Running   0          22s
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl get services
NAME            TYPE        CLUSTER-IP      EXTERNAL-IP   PORT(S)        AGE
kubernetes      ClusterIP   10.96.0.1       <none>        443/TCP        20m
webapp-service  NodePort    10.101.234.89   <none>        80:30080/TCP   2m12s
```

Abrir en el navegador:



Crear Configmap, editar WebApp, replicar y verificar:

```
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl apply -f configmap.yaml
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl apply -f webapp.yaml
deployment.apps/webapp configured
service/webapp-service unchanged
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl get pods
NAME                      READY   STATUS    RESTARTS   AGE
webapp-6b995fc796-98mg2   1/1     Running   0          11s
webapp-6b995fc796-cfxww   1/1     Running   0          8s
```

Usando secret en la app, verificando y replicando:

```
secret/webapp-secret created
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl apply -f webapp.yaml
deployment.apps/webapp configured
service/webapp-service unchanged
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl get pods
NAME                     READY   STATUS    RESTARTS   AGE
webapp-894cd5756-hmwcc   1/1     Running   0          4s
webapp-894cd5756-qblsk   1/1     Running   0          6s
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl exec -it > -- printenv PASSWORD^C
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl exec -it webapp-894cd5756-hmwcc -- pr
intenv PASSWORD
securo123
```

Montando volúmenes y exponiéndolos:

```
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl apply -f config-volume.yaml
configmap/html-config created
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl apply -f webapp-volumen.yaml
deployment.apps/webapp-volumen created
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl expose deployment webapp-volumen --ty
pe=NodePort --port=80 --name=webapp-volumen-service
service/webapp-volumen-service exposed
```

Evidenciando el HTML en el navegado:

Â¡Hola desde un volumen en Kubernetes!

Limpieza:

```
>> kubectl delete -f config-volume.yaml
>> kubectl delete -f webapp-volumen.yaml
>> kubectl delete service webapp-service
>> kubectl delete service webapp-volumen-service
deployment.apps "webapp" deleted
service "webapp-service" deleted
configmap "webapp-config" deleted
secret "webapp-secret" deleted
configmap "html-config" deleted
deployment.apps "webapp-volumen" deleted
Error from server (NotFound): services "webapp-service" not found
service "webapp-volumen-service" deleted
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio>
```

Definiendo namespace, bases de datos y servicios:

```
>> kubectl delete -f config-volume.yaml
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl apply -f namespace.yaml
namespace/auth-demo created
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl config set-context --current --namesp
ace=auth-demo
Context "docker-desktop" modified.
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl apply -f db1.yaml
>> kubectl apply -f db2.yaml
>> kubectl apply -f pais-service.yaml
>> kubectl apply -f auth-service.yaml
persistentvolumeclaim/db1-pvc created
service/db1 created
deployment.apps/db1 created
```

Verificando:

```
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl get pods
NAME                            READY   STATUS              RESTARTS   AGE
auth-service-7df446bdbb-gbzkt   0/1     ContainerCreating   0          69s
db1-dbd647-lm572                1/1     Running             0          70s
db2-pvc-5cc595955-jl672         1/1     Running             0          69s
pais-service-796bb57fcc-w5grq   0/1     ContainerCreating   0          69s
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl get svc
NAME           TYPE        CLUSTER-IP       EXTERNAL-IP   PORT(S)    AGE
auth-service   ClusterIP   10.96.187.212    <none>        8080/TCP   75s
db1            ClusterIP   10.98.7.76       <none>        5432/TCP   76s
db2-pvc        ClusterIP   10.98.38.184     <none>        5432/TCP   75s
pais-service   ClusterIP   10.107.149.204   <none>        8080/TCP   75s
```

```
Forwarding from [::1]:8081 -> 8081
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl apply -f pais-service.yaml
>> kubectl apply -f auth-service.yaml
service/pais-service configured
deployment.apps/pais-service configured
service/auth-service configured
deployment.apps/auth-service configured
PS D:\Codelabs\Codelabs-Soft-Dev-III\Kubernetes intermedio> kubectl port-forward svc/pais-service 8082:80
80
>> kubectl port-forward svc/auth-service 8081:8080
Forwarding from 127.0.0.1:8082 -> 8080
Forwarding from [::1]:8082 -> 8080
```