Iniciando el nginx en kubectl

```
Microsoft Windows [Version 10.0.19045.5131]
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C:\Users\User>kubectl get nodes
NAME STATUS ROLES
                                                    VERSION
v1.32.2
docker-desktop Ready
                             control-plane 74s
C:\Users\User>kubectl create deployment nginx-deploy --image=nginx
deployment.apps/nginx-deploy created
C:\Users\User>kubectl get pods
                                  READY
                                            STATUS
NAME
                                                                   RESTARTS
                                                                               AGE
nginx-deploy-c9d9f6c6c-nxvzj 0/1
                                            ContainerCreating
C:\Users\User>
C:\Users\User>kubectl expose deployment nginx-deploy --type=NodePort --port=80
service/nginx-deploy exposed
C:\Users\User>kubectl get services
                ClusterIP 10.96.0.1
                                                EXTERNAL-IP PORT(S)
                              10.96.0.1 <none>
10.107.190.50 <none>
kubernetes
                                                                443/TCP
                                                                                  2m12s
                                                                80:30227/TCP
nginx-deploy
                NodePort
:\Users\User>
C:\Users\User>
```

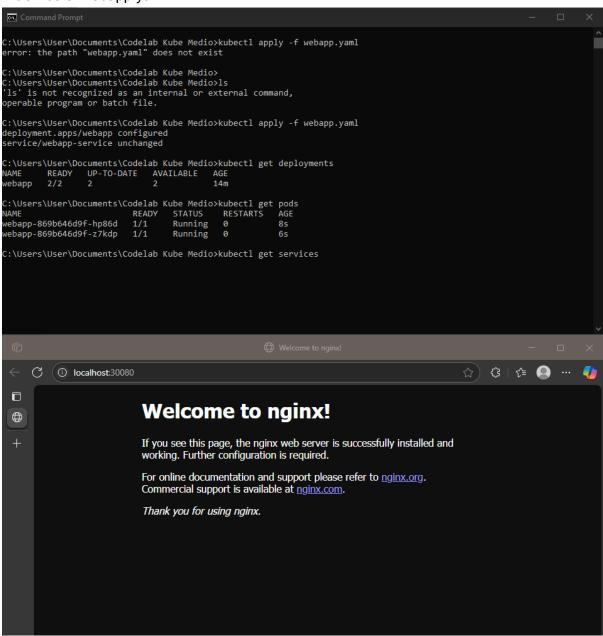
Prueba del servicio expuesto



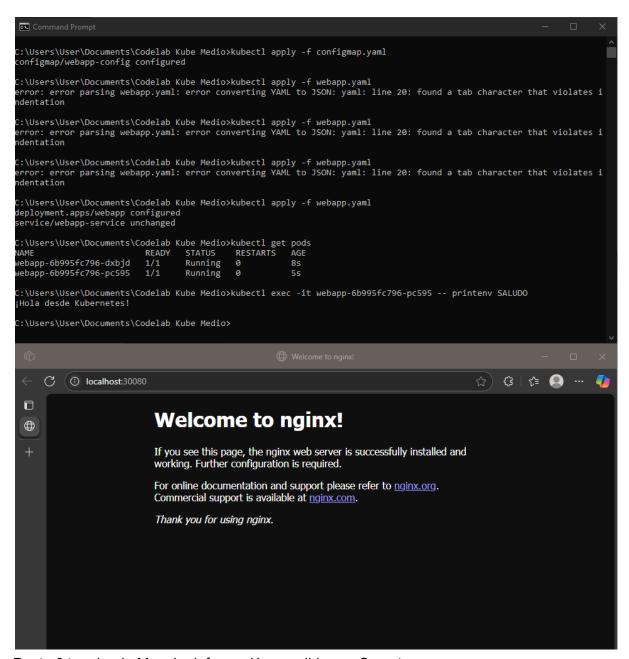
Creacion de replicas y Eliminación de estas

```
::\Users\User>kubectl scale deployment nginx-deploy --replicas=3
deployment.apps/nginx-deploy scaled
::\Users\User>kubectl get pods
MAME
                               READY
                                       STATUS
                                                            RESTARTS
                                                                        AGE
nginx-deploy-c9d9f6c6c-87q79
                               0/1
                                        ContainerCreating
                                                            0
                                                                        1s
nginx-deploy-c9d9f6c6c-nxvzj
                               1/1
                                       Running
                                                            0
                                                                        995
nginx-deploy-c9d9f6c6c-p9kq2
                               0/1
                                       ContainerCreating
                                                                        1s
                                                            0
C:\Users\User>kubectl delete service nginx-deploy
service "nginx-deploy" deleted
::\Users\User>kubectl delete deployment nginx-deploy
deployment.apps "nginx-deploy" deleted
:\Users\User>
```

iniciamos el webapp.yaml



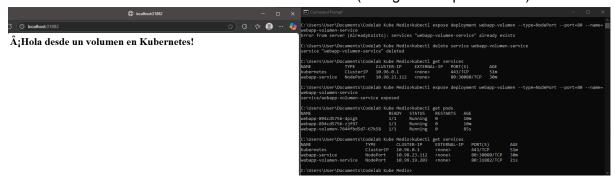
Paso 5 Completado externalizar configuraciones con ConfigMap



Punto 6 terminado Manejar información sensible con Secrets

```
C:\Users\User\Documents\Codelab Kube Medio>kubectl get pods
                                      STATUS
Running
                                                 RESTARTS
                             READY
webapp-6b995fc796-dxbjd
webapp-6b995fc796-pc595
                             1/1
                                      Running
                                                  a
 :\Users\User\Documents\Codelab Kube Medio>kubectl exec -it webapp-6b995fc796-pc595 -- printenv SALUDO
:Hola desde Kubernetes!
C:\Users\User\Documents\Codelab Kube Medio>kubectl apply -f secret.yaml
secret/webapp-secret created
 ::\Users\User\Documents\Codelab Kube Medio>kubectl apply -f webapp.yaml
deployment.apps/webapp configured service/webapp-service unchanged
 :\Users\User\Documents\Codelab Kube Medio>kubectl get pods
                             READY
                                      STATUS
                                                             RESTARTS
                                                                          AGE
                            1/1
0/1
1/1
webapp-6b995fc796-dxbjd
                                      Running
                                                                          2m31s
webapp-6b995fc796-pc595
webapp-894cd5756-4pzg5
                                       Completed
                                                                          2m28s
                                      Running
ContainerCreating
                                                             Ø
                                                                          45
vebapp-894cd5756-zif97
                             0/1
C:\Users\User\Documents\Codelab Kube Medio>kubectl exec -it <nombre-del-pod> -- printenv PASSWORD The system cannot find the file specified.
C:\Users\User\Documents\Codelab Kube Medio>kubectl exec -it webapp-894cd5756-4pzg5 -- printenv PASSWORD securo123
C:\Users\User\Documents\Codelab Kube Medio>
```

Punto 7 Terminado Montar archivos como volúmenes (configuración por archivo)



Punto 8 Limpieza de servicios

```
C:\Users\User\Documents\Codelab Kube Medio>kubectl delete -f webapp.yaml
deployment.apps "webapp" deleted
service "webapp-service" deleted

C:\Users\User\Documents\Codelab Kube Medio>kubectl delete -f configmap.yaml
configmap "webapp-config" deleted

C:\Users\User\Documents\Codelab Kube Medio>kubectl delete -f secret.yaml
secret "webapp-secret" deleted

C:\Users\User\Documents\Codelab Kube Medio>kubectl delete -f config-volume.yaml
configmap "html-config" deleted

C:\Users\User\Documents\Codelab Kube Medio>kubectl delete -f webapp-volumen.yaml
deployment.apps "webapp-volumen" deleted

C:\Users\User\Documents\Codelab Kube Medio>kubectl delete service webapp-service
Error from server (NotFound): services "webapp-service" not found

C:\Users\User\Documents\Codelab Kube Medio>kubectl delete service webapp-volumen-service
service "webapp-volumen-service" deleted

C:\Users\User\Documents\Codelab Kube Medio>kubectl delete service webapp-volumen-service
service "webapp-volumen-service" deleted

C:\Users\User\Documents\Codelab Kube Medio>_
```

```
Command Prompt
C:\Users\User\Documents\Codelab Kube Medio\k8s-auth-demo>kubectl apply -f db1.yaml
persistentvolumeclaim/db1-pvc unchanged
service/db1 unchanged
deployment.apps/db1 unchanged
C:\Users\User\Documents\Codelab Kube Medio\k8s-auth-demo>kubectl apply -f db2.yaml
persistentvolumeclaim/db2-pvc unchanged
.
service/db2 unchanged
deployment.apps/db2 unchanged
 :\Users\User\Documents\Codelab Kube Medio\k8s-auth-demo>kubectl apply -f pais-service.yaml
service/pais-service unchanged
deployment.apps/pais-service unchanged
C:\Users\User\Documents\Codelab Kube Medio\k8s-auth-demo>kubectl apply -f auth-service.yaml
service/auth-service unchanged
deployment.apps/auth-service unchanged
 :\Users\User\Documents\Codelab Kube Medio\k8s-auth-demo>
 :\Users\User\Documents\Codelab Kube Medio\k8s-auth-demo>kubectl get pods
HAME READY STATUS RESTARTS AGE
NAME
                                        0/1
1/1
1/1
auth-service-68d854bc97-rzc8x
                                                  Running
db1-dbd647-tk9gm
db2-6ddd5445f5-f4jqz
                                                  Running
                                                                             2m5s
                                                              0
                                                  Running
                                                                             3m8s
pais-service-796bb57fcc-jq6xf 0/1
                                                  Running
                                                                             2m4s
C:\Users\User\Documents\Codelab Kube Medio\k8s-auth-demo>kubectl get svc
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
                                                                      PORT(S)
8080/TCP
5432/TCP
5432/TCP
                                10.99.193.66
10.107.228.51
10.99.83.117
10.100.233.28
auth-service
                  ClusterIP
                  ClusterIP
ClusterIP
db1
db2
                                                      <none>
                                                                                      2m5s
                                                      <none>
                                                                                      3m8s
                  ClusterIP
                                                                        8080/TCP
C:\Users\User\Documents\Codelab Kube Medio\k8s-auth-demo>kubectl port-forward svc/auth-service 8081:8080
Forwarding from 127.0.0.1:8081 -> 8080
Forwarding from [::1]:8081 -> 8080
Handling connection for 8081
Handling connection for 8081
C:\Users\User\Documents\Codelab Kube Medio\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
Handling connection for 8082
```