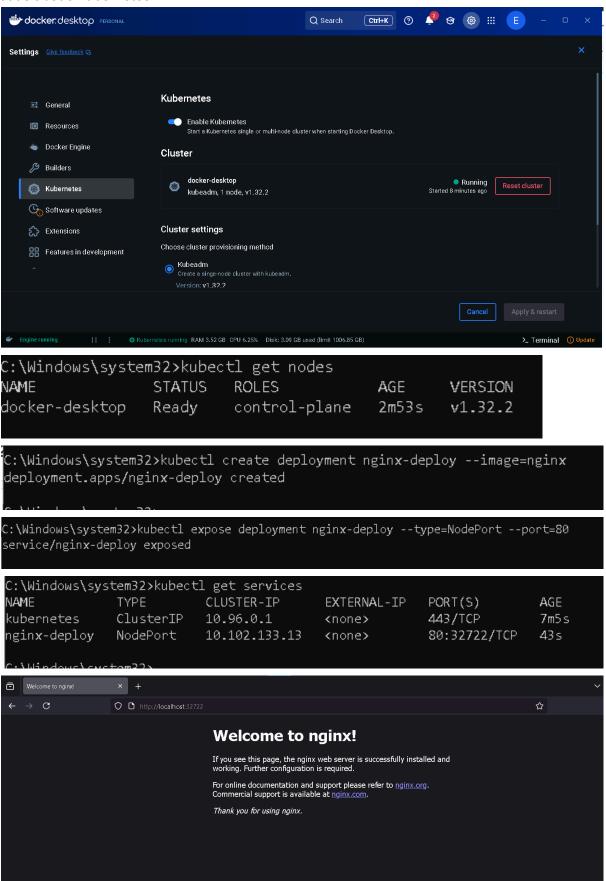
codelabsde kubernetes



C:\Windows\system32>kubectl scale deployment nginx-deploy --replicas=3 deployment.apps/nginx-deploy scaled C:\Windows\system32>kubectl get pods NAME READY STATUS RESTARTS AGE nginx-deploy-c9d9f6c6c-2hbc5 1/1 Running 4m47snginx-deploy-c9d9f6c6c-jrvmn 1/1 Running 95 0 nginx-deploy-c9d9f6c6c-w7gcv 1/1 Running 9s

C:\Windows\system32>kubectl delete service nginx-deploy
service "nginx-deploy" deleted

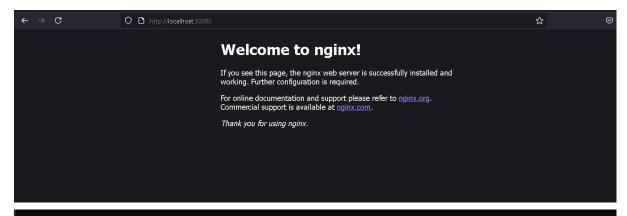
C:\Windows\system32>kubectl delete deployment nginx-deploy
deployment.apps "nginx-deploy" deleted

segundo

::\Users\Cocodrelo\Documents\Kubernetes>kubectl apply -f webapp.yaml deployment.apps/webapp created service/webapp-service created

C:\Users\Cocodrelo\Documents\Kubernetes>kubectl get deployments NAME READY UP-TO-DATE AVAILABLE AGE webapp 2/2 82s C:\Users\Cocodrelo\Documents\Kubernetes>kubectl get pods READY STATUS RESTARTS webapp-869b646d9f-q2gfb 1/1 Running 91s 1/1 webapp-869b646d9f-xksqj Running 0 91s :C:\Users\Cocodrelo\Documents\Kubernetes>kubectl get services NAME TYPE AGE CLUSTER-IP EXTERNAL-IP PORT(S) kubernetes ClusterIP 10.96.0.1 443/TCP 20m <none> NodePort webapp-service 10.106.129.43 80:30080/TCP 99s <none>

```
! webapp.yaml •
                 ! configmap.yaml
! webapp.yaml
      apiVersion: apps/v1
      kind: Deployment
      metadata:
        name: webapp
       spec:
         replicas: 2
         selector:
           matchLabels:
             app: webapp
         template:
 11
           metadata:
             labels:
 12
 13
               app: webapp
 14
           spec:
 15
             containers:
             - name: nginx
               image: nginx
 17
               ports:
               - containerPort: 80
 19
 20
 21
      apiVersion: v1
 22
      kind: Service
 23
      metadata:
        name: webapp-service
 25
 26
       spec:
 27
         selector:
 28
           app: webapp
 29
         type: NodePort
         ports:
 31
           - port: 80
 32
             targetPort: 80
             nodePort: 30080
 33
```



C:\Users\Cocodrelo\Documents\Kubernetes>kubectl apply -f configmap.yaml
configmap/webapp-config created

```
! webapp.yaml ×
                 ! configmap.yaml
! webapp.yaml
      apiVersion: apps/v1
      kind: Deployment
      metadata:
       name: webapp
      spec:
         replicas: 2
        selector:
           matchLabels:
             app: webapp
         template:
           metadata:
 11
             labels:
 12
               app: webapp
 13
           spec:
 15
             containers:
             - name: nginx
               image: nginx
               ports:
 19
               - containerPort: 80
               env:
                   - name: SALUDO
 21
                     valueFrom:
 22
 23
                       configMapKeyRef:
                         name: webapp-config
                          key: SALUDO
 25
      apiVersion: v1
       kind: Service
 29
      metadata:
        name: webapp-service
       spec:
         selector:
           app: webapp
         type: NodePort
        ports:
           - port: 80
             targetPort: 80
             nodePort: 30080
```

C:\Users\Cocodrelo\Documents\Kubernetes>kubectl apply -f webapp.yaml
deployment.apps/webapp configured
service/webapp-service unchanged

C:\Users\Cocodrelo\Documents\Kubernetes>kubectl exec -it webapp-6b995fc796-bjj2g -- printenv SALUDO ¡Hola desde Kubernetes!

```
! webapp.yaml ! secret.yaml × ! configmap.yaml
! secret.yaml
1    apiVersion: v1
2    kind: Secret
3    metadata:
4    name: webapp-secret
5    type: Opaque
6    data:
7    PASSWORD: c2VjdXJvMTIz # base64 de "seguro123"
```

C:\Users\Cocodrelo\Documents\Kubernetes>kubectl apply -f secret.yaml secret/webapp-secret created

```
app: webapp
        spec:
          containers:
          - name: nginx
            image: nginx
            ports:
            - containerPort: 80
            env:
                 name: SALUD0
                   valueFrom:
                      configMapKeyRef:
                        name: webapp-config
                        key: SALUDO

    name: PASSWORD

                   valueFrom:
                      secretKeyRef:
                        name: webapp-secret
                        key: PASSWORD
   apiVersion: v1
   kind: Service
   metadata.
::\Users\Cocodrelo\Documents\Kubernetes>kubectl exec -it webapp-894cd5756-bnpd8 -- printenv PASSWORD
```

C:\Users\Cocodrelo\Documents\Kubernetes>kubectl exec -it webapp-894cd5756-bnpd8 -- printenv PASSWORD securo123

¡Hola desde un volumen en Kubernetes!

```
::\Users\Cocodrelo\Documents\Kubernetes\k8s-auth-demo>kubectl apply -f namespace.yaml
::\Users\Cocodrelo\Documents\Kubernetes\k8s-auth-demo>kubectl apply -f db1.yaml
ervice/db1 created
eployment.apps/db1 created
::\Users\Cocodrelo\Documents\Kubernetes\k8s-auth-demo>kubectl apply -f db2.yaml
ersistentvolumeclaim/db2-pvc created
ervice/db2 created
eployment.apps/db2 created
::\Users\Cocodrelo\Documents\Kubernetes\k8s-auth-demo>kubectl apply -f pais-service.yaml
ervice/pais-service created
eployment.apps/pais-service created
:\Users\Cocodrelo\Documents\Kubernetes\k8s-auth-demo>kubectl apply -f auth-service.yaml
ervice/auth-service created
eployment.apps/auth-service created
C:\Users\Cocodrelo\Documents\Kubernetes\k8s-auth-demo>kubectl get pods
NAME
                                       READY
                                                STATUS
                                                                         RESTARTS
                                                                                       AGE
auth-service-7df446bdbb-j6lgx
                                       0/1
                                                 ContainerCreating
db1-dbd647-zdzm4
                                                 ContainerCreating
                                                                                       15 s
                                       0/1
                                                                         а
db2-6ddd5445f5-h1h46
                                       0/1
                                                ContainerCreating
                                                                                       15 s
pais-service-796bb57fcc-8bbbv
                                       0/1
                                                                                       15 s
                                                ContainerCreating
C:\Users\Cocodrelo\Documents\Kubernetes\k8s-auth-demo>kubectl                get svc
                  TYPE
                                CLUSTER-IP
                                                      EXTERNAL-IP
                                                                       PORT(S)
                                                                                    AGE
auth-service
                  ClusterIP
                                10.111.67.188
                                                      <none>
                                                                       8080/TCP
                                                                                    3s
db1
                  ClusterIP
                                10.101.140.130
                                                                       5432/TCP
                                                                                    18s
                                                      <none>
                                                                       5432/TCP
dh2
                  ClusterIP
                                 10.107.227.204
                                                                                    17s
                                                      <none>
pais-service
                  ClusterIP
                                 10.105.74.48
                                                                       8080/TCP
                                                                                    17s
 C:\Users\Cocodrelo\Documents\Kubernetes\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
                (33) YouTube
                                  Ver Anime
                                                   (3) Twitch
                                                                     Kick
                                                                                 Página Principal I
                                                                                                     GitH
 Seleccionar C:\Windows\System32\cmd.exe - kubectl port-forward svc/auth-service 8081:8080
 Microsoft Windows [Versión 10.0.19045.5965]
 (c) Microsoft Corporation. Todos los derechos reservados.
 C:\Users\Cocodrelo\Documents\Kubernetes\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
```

