

Codelab Kubernetes nivel básico local

Desarrollo de Software III

Jhojan Stiven Castaño Jejen-2259476

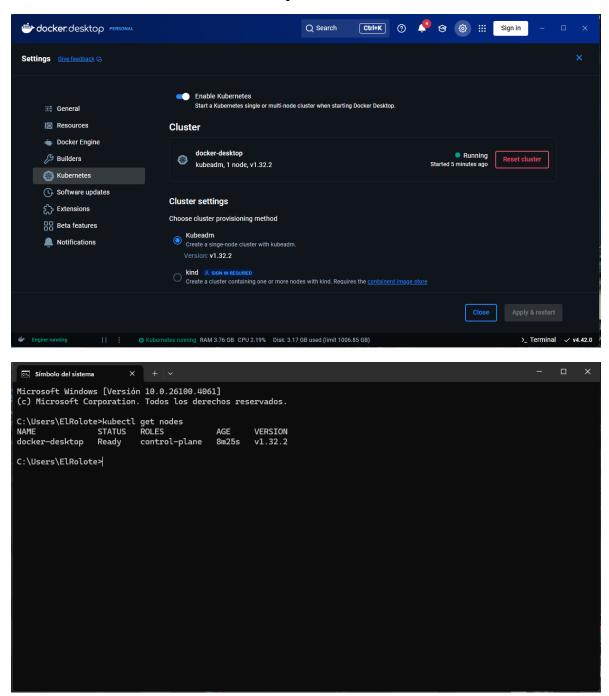
Universidad Del Valle

Sede Tuluá

Septimo Semestre

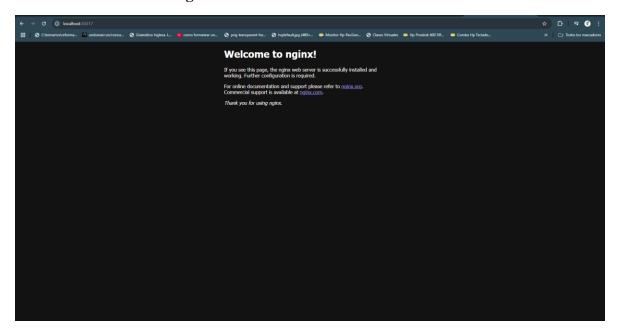
Evidencias codelab

Se habilita kubernetes en Docker desktop



```
C:\Users\ElRolote>kubectl create deployment nginx-deploy --image=nginx
deployment.apps/nginx-deploy created
C:\Users\ElRolote>kubectl get pods
                                            RESTARTS AGE
                            READY
                                   STATUS
nginx-deploy-c9d9f6c6c-vhlpw 1/1
                                                       83s
                                   Running
                                            0
C:\Users\ElRolote>
C:\Users\ElRolote>kubectl expose deployment nginx-deploy --type=NodePort --port=80
service/nginx-deploy exposed
C:\Users\ElRolote>kubectl get services
NAME
               TYPE
                           CLUSTER-IP
                                             EXTERNAL-IP
                                                           PORT(S)
                                                                           AGE
                           10.96.0.1
10.101.221.203
               ClusterIP
kubernetes
                                             <none>
                                                           443/TCP
                                                                           16m
                                                           80:30317/TCP
nginx-deploy
              NodePort
                                            <none>
                                                                           8s
C:\Users\ElRolote>
```

Accedemos desde el navegador



Escalamos la aplicación

```
C:\Users\ElRolote>kubectl scale deployment nginx-deploy --replicas=3
deployment.apps/nginx-deploy scaled
C:\Users\ElRolote>kubectl get pods
NAME
                                   READY
                                            STATUS
                                                       RESTARTS
                                                                    AGE
                                  1/1
1/1
1/1
nginx-deploy-c9d9f6c6c-7pqzg
nginx-deploy-c9d9f6c6c-c2s25
                                            Running
                                                       Θ
                                                                    4s
                                            Running
                                                       Θ
                                                                    45
nginx-deploy-c9d9f6c6c-vhlpw
                                                       Θ
                                            Running
                                                                    16m
```

Limpiamos los recursos creados

C:\Users\ElRolote>kubectl delete service nginx-deploy service "nginx-deploy" deleted

C:\Users\ElRolote>kubectl delete deployment nginx-deploy deployment.apps "nginx-deploy" deleted