

Codelab Kubernetes nivel basico GCP

Desarrollo de Software III

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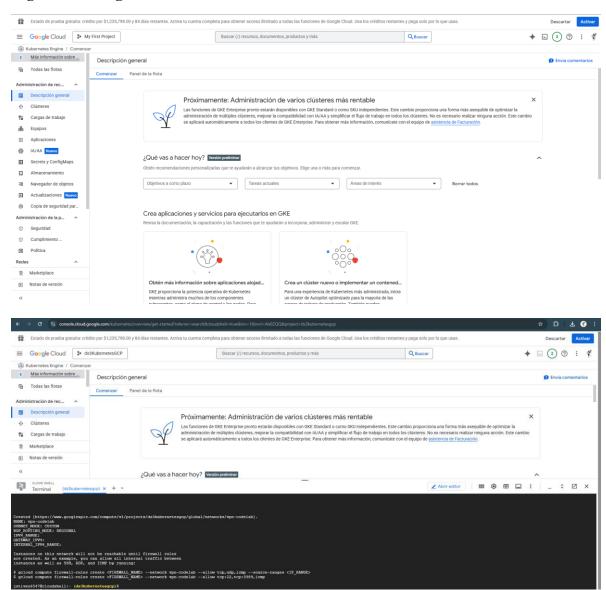
Universidad Del Valle

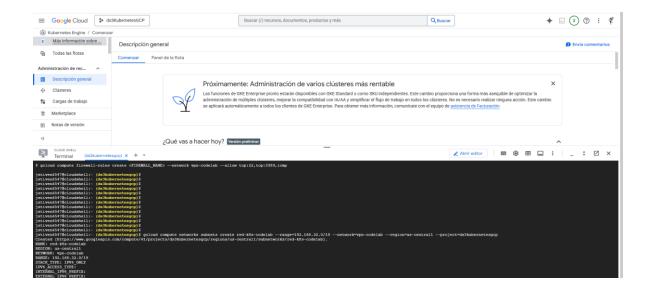
Sede Tuluá

Septimo Semestre

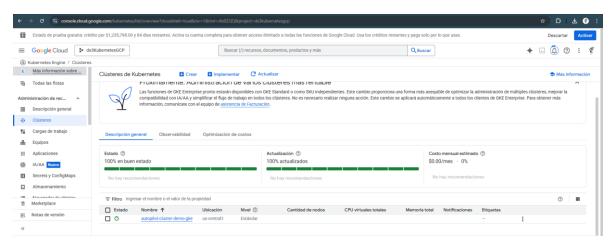
Evidencias codelab

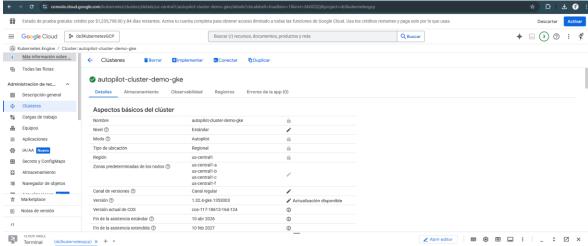
Ingreso de Google Cloud





Verificacion del estado





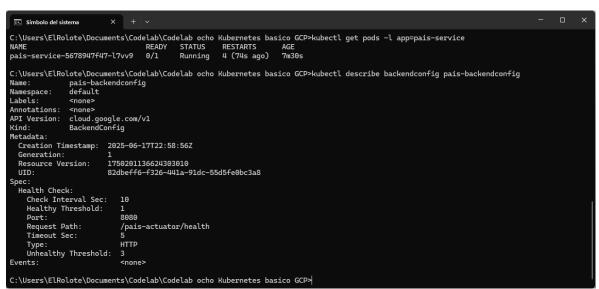
Conexión al cluster mediante las herramientas kubectl y gcloud SDK

```
Símbolo del sistema
 Microsoft Windows [Versión 10.0.26100.4351]
(c) Microsoft Corporation. Todos los derechos reservados.
 C:\Users\ElRolote>gcloud container clusters get-credentials autopilot-cluster-demo-gke --region us-central1 --project ds
 Fetching cluster endpoint and auth data.
 CRITICAL: ACTION REQUIRED: gke-gcloud-auth-plugin, which is needed for continued use of kubectl, was not found or is not executable. Install gke-gcloud-auth-plugin for use with kubectl by following https://cloud.google.com/kubernetes-engine/docs/how-to/cluster-access-for-kubectl#install_plugin
 kubeconfig entry generated for autopilot-cluster-demo-gke.
 Updates are available for some Google Cloud CLI components. To install them,
   $ gcloud components update
 C:\Users\ElRolote>gcloud components install gke-gcloud-auth-plugin
 Restarting command:
   $ gcloud components install gke-gcloud-auth-plugin
 C:\Users\ElRolote>gcloud container clusters get-credentials autopilot-cluster-demo-gke --region us-central1 --project ds
 3kubernetesgcp
Fetching cluster endpoint and auth data.
kubeconfig entry generated for autopilot-cluster-demo-gke.
 C:\Users\ElRolote>
 TRolote@DESKTOP-HP6I8OS MINGW64 ~/Documents/Codelab/Codelab ocho Kubernetes bas
$ kubectl apply -f pais-deployment.yaml
service/pais-service created
deployment.apps/pais-service created
  lRolote@DESKTOP-HP61805 MINGW64 ~/Documents/Codelab/Codelab ocho Kubernetes bas
$ kubectl apply -f auth-deployment.yaml
service/auth-service unchanged
deployment.apps/auth-service unchanged
  lRolote@DESKTOP-HP61805 MINGW64 ~/Documents/Codelab/Codelab ocho Kubernetes bas
$ kubectl apply -f backendconfig.yaml
backendconfig.cloud.google.com/pais-backendconfig unchanged
backendconfig.cloud.google.com/auth-backendconfig unchanged
 TRolote@DESKTOP-HP6I8OS MINGW64 ~/Documents/Codelab/Codelab ocho Kubernetes bas
S kubectl apply -f ingress.yaml
ingress.networking.k8s.io/app-ingress unchanged
```

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Despliegue backend

```
Símbolo del sistema
." /api/pais-service pais-service:80 ()
/auth auth-service:80 ()
Annotations: ingress.kubernetes.io/backends:
{"k8s1-3532d4a6-default-auth-service-80-482444fb":"UNHEALTHY","k8s1-3532d4a6-default-pais-service-80-29360d61":"UNHEALT
HY"."k8s1-3532d4a6-..
                     zu4do-...
ingress.kubernetes.io/forwarding-rule: k8s2-fr-muntpq6d-default-app-ingress-h6g7kytn
ingress.kubernetes.io/target-proxy: k8s2-tp-muntpq6d-default-app-ingress-h6g7kytn
ingress.kubernetes.io/url-map: k8s2-um-muntpq6d-default-app-ingress-h6g7kytn
kubernetes.io/ingress.class: gce
Events:
                 Reason
                                                                                                                Message
                                   Age
   Type
 Warning Translate 7m3s (x14 over 7m44s) loadbalancer-controller Translation failed: invalid ingress spec: could not find service default/pais-service"
                                                                        loadbalancer-controller UrlMap "k8s2-um-muntpq6d-default-app-ingress-h6g7kytn" created loadbalancer-controller TargetProxy "k8s2-tp-muntpq6d-default-app-ingress-h6g7kytn" creat
   Normal
                 Sync
                 Sync
                                                                        loadbalancer-controller ForwardingRule "k8s2-fr-muntpq6d-default-app-ingress-h6g7kytn" cr
                 Sync
eated
                                   2m48s loadbalancer-controller IP is now 34.54.3.78
2m26s (x5 over 7m44s) loadbalancer-controller Scheduled for sync
   Normal
C:\Users\ElRolote\Documents\Codelab\Codelab ocho Kubernetes basico GCP>kubectl get pods -l app=pais-service NAME READY STATUS RESTARTS AGE pais-service-5678947f47-l7vv9 0/1 Running 4 (74s ago) 7m30s
C:\Users\ElRolote\Documents\Codelab\Codelab ocho Kubernetes basico GCP>
```



C:\Users\ElRolote\Documents\Codelab\Codelab ocho Kubernetes basico GCP>kubectl rollout restart deployment pais-service deployment.apps/pais-service restarted
C:\Users\ElRolote\Documents\Codelab\Codelab ocho Kubernetes basico GCP>

