

Lab 8 avanzado y extra:

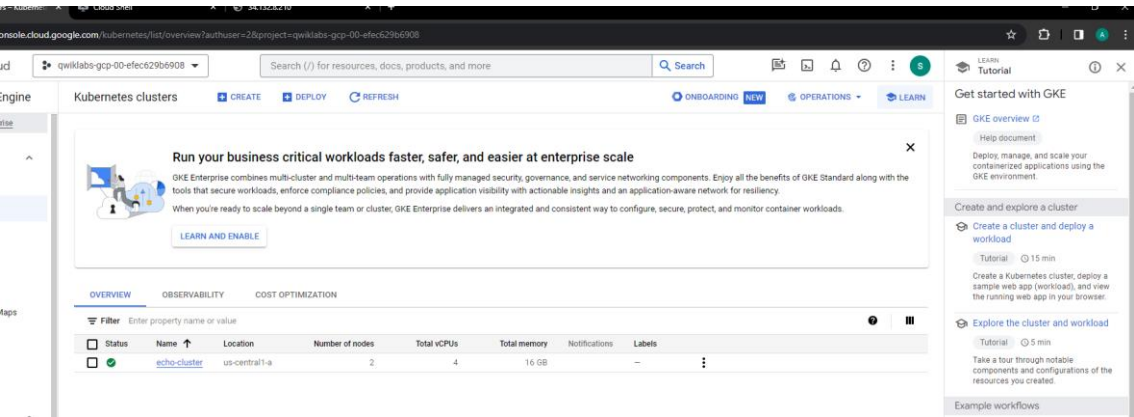
Con *gsutil* descargo el archivo echo-web.tar.gz.

Con *tar -xzf echo-web.tar.gz* descomprimo el archivo.

Imagen docker echo-app:

```
student_01_cc839856d112@cloudshell:~ (qwiklabs-gcp-00-efec629b6908) $ docker images
REPOSITORY          TAG          IMAGE ID          CREATED          SIZE
gcr.io/qwiklabs-gcp-00-efec629b6908/echo-app             v1           933c0b9c79ee     22 minutes ago  13.3MB
```

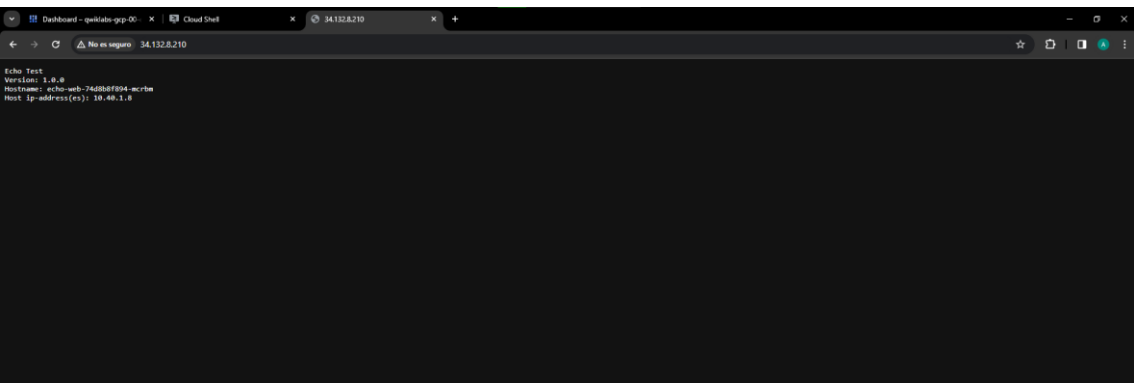
Clúster de kubernetes echo-cluster:



Los servicios de kubernetes.

```
Error from server (AlreadyExists): services "echo-web" already exists
student_01_cc839856d112@cloudshell:~ (qwiklabs-gcp-00-efec629b6908) $ kubectl get services
NAME                TYPE          CLUSTER-IP    EXTERNAL-IP    PORT(S)          AGE
echo-web            LoadBalancer  10.44.4.42     34.132.8.210   80:31804/TCP     4m52s
echo-web-service    LoadBalancer  10.44.3.60     35.222.220.63  80:31770/TCP     5m43s
kubernetes          ClusterIP      10.44.0.1      <none>         443/TCP          8m54s
student_01_cc839856d112@cloudshell:~ (qwiklabs-gcp-00-efec629b6908) $
```

Resultado de la búsqueda.



Lab 8 actividades extra:

Escalamos a tres nodos los servidores:

kubectl scale deployment echo-web --replicas=3

```
student_03_8d10df5a8274@cloudshell:~ (qwiklabs-gcp-04-ec5f3bc504ec)$ kubectl get pods
NAME                                READY   STATUS    RESTARTS   AGE
echo-web-6ccbc54db4-pt14s          1/1     Running   0           11s
echo-web-6ccbc54db4-qt9nl          1/1     Running   0           11s
echo-web-6ccbc54db4-s9wdf          1/1     Running   0           54s
```

Actualizamos la versión a v2:

Cambiamos el archivo main.go y ponemos versión 2.0.0.0

nano main.go

Primero construimos la imagen de docker:

```
student_01_cc839856d112@cloudshell:~ (qwiklabs-gcp-00-efec629b6908)$ docker build -t gcr.io/qwiklabs-gcp-00-efec629b6908/echo-app:v2 ./
[+] Building 1.3s (11/11) FINISHED
=> [internal] load .dockerignore
=> => transferring context: 28B
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 195B
=> [internal] load metadata for docker.io/library/alpine:latest
=> [internal] load metadata for docker.io/library/golang:1.8-alpine
=> [internal] load build context
=> => transferring context: 6.29MB
=> [stage-1 1/2] FROM docker.io/library/alpine:latest@sha256:51b67269f354137895d43f3b3d810bfacd3945438e94dc5ac55fdac340352f48
=> CACHED [stage-0 1/3] FROM docker.io/library/golang:1.8-alpine@sha256:693568f2ab0daee19f44b41628d2aeal48fac65974cfd18f83cb9863ab1a177
=> [stage-0 2/3] ADD . /go/src/echo-app
=> [stage-0 3/3] RUN go install echo-app
=> CACHED [stage-1 2/2] COPY --from=0 /go/bin/echo-app .
=> exporting to image
=> => writing image sha256:933c0b9c78eea9290f3bffd19e6elfe6761d272290f8f037ed574d226c5d4cbd
=> => naming to gcr.io/qwiklabs-gcp-00-efec629b6908/echo-app:v2
```

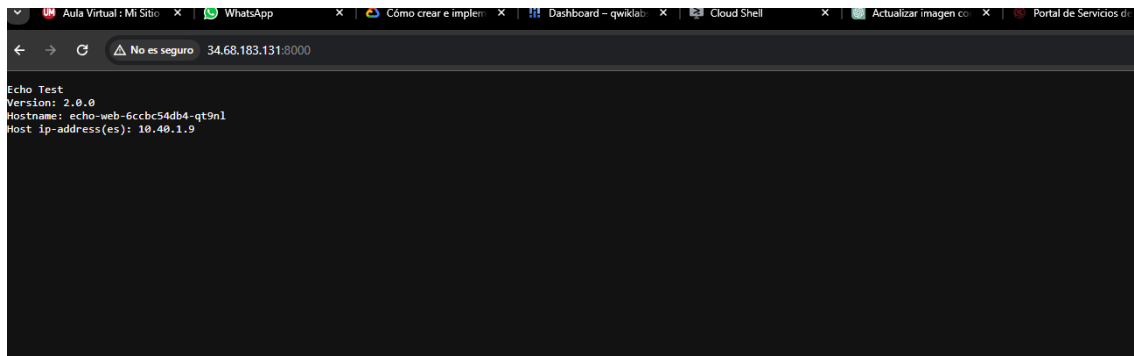
La subimos a GCR:

```
student_01_cc839856d112@cloudshell:~ (qwiklabs-gcp-00-efec629b6908)$ docker push gcr.io/qwiklabs-gcp-00-efec629b6908/echo-app:v2
The push refers to repository [gcr.io/qwiklabs-gcp-00-efec629b6908/echo-app]
22cec8c7d88a: Layer already exists
5af4f8f59b76: Layer already exists
v2: digest: sha256:ccf7943cddaf182ed8522faf14f1980fd659663011830e5b4858e236c87d2c76 size: 739
```

Edito el archivo de la implementación cambiando v1 por v2 en Spec > containers > image:

```
student_01_cc839856d112@cloudshell:~ (qwiklabs-gcp-00-efec629b6908)$ kubectl edit deployment echo-web
deployment.apps/echo-web edited
```

Resultado de la búsqueda:



```
Echo Test
Version: 2.0.0
Hostname: echo-web-6ccbc54db4-qt9nl
Host ip-address(es): 10.40.1.9
```