**CAPTURAS DE PANTALLA DE TRABAJO FINAL - DARWIN RAPHAEL FERNÁNDEZ PATIÑO**

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**7. En el Namespace name2 realizar la siguiente implementación:**

Deployments de LoadBalancer:  
root@DESKTOP-EJASBPR:/workspace/k8s-clusters/gke# k apply -f ../../Clases4-6/service/loadBalancer/deployment.yaml

deployment.apps/my-deployment-50001 created

Creación del servicio nodePort:

root@DESKTOP-EJASBPR:/workspace/k8s-clusters/gke# k apply -f ../../Clases4-6/service/nodePort/svc-v1-np.yaml

service/my-np-service created

Se crea la regla de firewall en la nube gke:



Se hace el curl, ahora sí permite el llamado:

root@DESKTOP-EJASBPR:/workspace/k8s-clusters/gke# curl -i <http://34.73.103.62:31145/hello>

HTTP/1.1 200 OK

Date: Fri, 23 Feb 2024 08:09:14 GMT

Content-Length: 76

Content-Type: text/plain; charset=utf-8

Hello, world!

Version: 1.0.0

Hostname: my-deployment-50001-5d8b7b7d96-sjfsr

Despliegue del servicio de LoadBalancer:

root@DESKTOP-EJASBPR:/workspace/k8s-clusters/gke# k apply -f ../../Clases4-6/service/loadBalancer/svc.yaml

service/my-lb created





Curl de prueba al loadBalancer:

root@DESKTOP-EJASBPR:/workspace/k8s-clusters/gke# curl -i <http://34.139.6.67/hello>

HTTP/1.1 200 OK

Date: Fri, 23 Feb 2024 18:51:07 GMT

Content-Length: 76

Content-Type: text/plain; charset=utf-8

Connection: close

Hello, world!

Version: 1.0.0

Hostname: my-deployment-50001-5d8b7b7d96-sh6dc



Deployment con 4 réplicas:

root@DESKTOP-EJASBPR:/workspace/k8s-clusters/gke# k scale deploy my-deployment-50001 --replicas 4

deployment.apps/my-deployment-50001 scaled

Creación del configmap:

root@DESKTOP-EJASBPR:/workspace/k8s-clusters/gke# k apply -f ../../Clases4-6/rc-rs-deploy-sts/sts-mysql/cm-mysql.yaml

configmap/mysql created

Se instala el service tipo Headless:

root@DESKTOP-EJASBPR:/workspace/k8s-clusters/gke# k apply -f ../../Clases4-6/rc-rs-deploy-sts/sts-mysql/svc-mysql.yaml

service/mysql created

service/mysql-read created

Se crea el Statefulset:  
root@DESKTOP-EJASBPR:/workspace/k8s-clusters/gke# k apply -f ../../Clases4-6/rc-rs-deploy-sts/sts-mysql/sts-mysql.yaml

statefulset.apps/mysql created

root@DESKTOP-EJASBPR:/workspace/k8s-clusters/gke# k get pods

NAME READY STATUS RESTARTS AGE

my-deployment-50001-5d8b7b7d96-jd9cr 1/1 Running 0 18h

my-deployment-50001-5d8b7b7d96-mfnpc 1/1 Running 0 18h

my-deployment-50001-5d8b7b7d96-sh6dc 1/1 Running 0 18h

my-deployment-50001-5d8b7b7d96-sjfsr 1/1 Running 0 18h

my-deployment-57d7bc4bb8-9d8s8 1/1 Running 0 28h

my-deployment-57d7bc4bb8-j8vsf 1/1 Running 0 28h

my-deployment-57d7bc4bb8-mgrmt 1/1 Running 0 28h

my-deployment-57d7bc4bb8-r255k 1/1 Running 0 28h

my-deployment-57d7bc4bb8-w8t2x 1/1 Running 0 28h

mysql-0 0/2 Init:0/2 0 50s

root@DESKTOP-EJASBPR:/workspace/k8s-clusters/gke# k get svc

NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE

kubernetes ClusterIP 172.21.0.1 <none> 443/TCP 3d7h

my-lb LoadBalancer 172.21.7.249 34.139.6.67 80:32360/TCP 11h

mysql ClusterIP None <none> 3306/TCP 3h26m



Prueba con un Pod:  
Creación del Pod:

root@DESKTOP-EJASBPR:/workspace/k8s-clusters/gke# k apply -f ../../Clases4-6/rc-rs-deploy-sts/sts-mysql/pod-mysql.yaml

pod/mysql-client created





Conexión al pod mysql-client:

root@DESKTOP-EJASBPR:/workspace/k8s-clusters/gke# k exec -it mysql-client bash

kubectl exec [POD] [COMMAND] is DEPRECATED and will be removed in a future version. Use kubectl exec [POD] -- [COMMAND] instead.

bash-4.2# mysql -h mysql-0.mysql -u root -p

Enter password:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 8296

Server version: 5.7.44-log MySQL Community Server (GPL)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>