**Google Cloud Fundamentals: Getting Started with GKE**

Open Google Cloud shell and run this command to set up the zone for your project:

**export MY\_ZONE=us-central1-a**

Create a Kubernetes cluster that is managed by Kubernetes Engine. Call it webfrontend and configure it to run 2 nodes with this command line:

**gcloud container clusters create webfrontend --zone $MY\_ZONE --num-nodes 2**

Then check the version:

**kubectl version**

Now you can launch an instance of the nginx container running this code:

**kubectl create deploy nginx --image=nginx:1.17.10**

View the pod running the nginx container:

**Kubectl get pods**

Expose the nginx container to the Internet:

**kubectl expose deployment nginx --port 80 --type LoadBalancer**

Check the new service:

**kubectl get services**

Copy the external IP address to be able to contact the nginx container. It is normal if it takes some time for the External IP to be displayed. You can just re-run the [kubectl get services] till you get it displayed.

Run the cluster’s external IP address on a browser and you will find the default home page of the Nginx browser displayed.

You can scale up the number of pods running on your service with this command:

**kubectl scale deployment nginx --replicas 3**

Run this command to confirm the Kubernetes update:

**kubectl get pods**

Also confirm that the external IP address didn’t change:

**kubectl get services**

Go back to the web browser tab where you visited the cluster's external IP address. Re-run the page to confirm that the Nginx web server is still responding.

That’s all.