# **Kubernetes Hands-On Workshop – GCP / GKE Setup**

This document covers the steps to get your own Google Cloud Platform (GCP) Trial Account and Google Kubernetes Environment (GKE).

**1. Sign-in to GCP Sign-Up and enable the Kubernetes API**

1. Go to: <https://console.cloud.google.com/kubernetes> If you do not already have a Google account you will need to create one.
2. Once logged in, you should land in the “Kubernetes Engine” -> “Clusters” view and you will be asked to “Enable” the Kubernetes API and to create a Billing Account.

*Note: At this point you will need a valid credit card, but your card will not be charged, even after you have used up your Trial credits, unless you opt-in.*

Once you have setup your Billing account, you can then “Enable” the Kubernetes API which can take a minute or two. When the Kubernetes API is ready, you can move on to creating your first cluster!

**2. Create Kubernetes Cluster**

1. Create your first cluster, and choose “GKE Standard” as the cluster mode and make the following changes to the default configuration:
   1. Cluster Basics->Name: <choose your own cluster name>
   2. Node Pools->default-pool->Nodes->Series: N1
   3. Node Pools->default-pool->Nodes->Machine Type: n1-standard-4 (4vCPU,15 GB memory)
2. Your cluster should take ~3-5 minutes to be ready. You’ll know when it’s ready when you see the  in the Clusters view.

**3. Use Google Cloud Shell to connect to the cluster**

1. In the Clusters view, for your cluster select: “Connect -> Run In Cloud Shell”.
2. After accepting a one-time prompt, the shell will be launched with your first command “gcloud container…” pre-typed. Press Enter to execute this command which connects kubectl to your cluster.
3. Verify you are connected to your cluster with the following command that should show more than a dozen Pods already running in in the kube-system namespace in your cluster:  
   kubectl get pods –A

You are now ready to work with Kubernetes!