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Cheat Sheet: Kubernetes Cluster

Creating a GKE Cluster and Configuring Credentials


- From the Google Cloud Console (<https://console.cloud.google.com>):
 - Click the **Navigation menu** and select **Kubernetes Engine**
 - If an Enable button is displayed, click the **Enable** button
 - Copy/paste the following command in Cloud Shell and run it to create a Kubernetes Cluster (this is one single command):

```
gcloud container clusters create "cluster-1" --zone "us-central1-c"  
--machine-type "e2-small" --preemptible --num-nodes "3" --scopes  
"https://www.googleapis.com/auth/cloud-platform"
```
- Wait for the cluster to be created (3-5 minutes)

Testing the Cluster Access

- When the cluster is running, test your access by using kubectl commands:
 - **kubectl get services**
 - This should return a single service named Kubernetes
 - **kubectl get nodes**
 - This should return 3 nodes

Testing the Cluster Access (continued)

- If the cluster is running, but the kubectl commands did **not** work:
 - In the console, go to Kubernetes Engine and
 - Click the three vertical dots  to the right of your cluster
 - Then click the **Connect** button, and choose **Run in Cloud Shell**
 - Cloud Shell will open with a command pre-created
 - Press enter to run the command
 - This command creates the kubectl config file for your cluster

Success!

- **Congratulations!** You have successfully created a Kubernetes cluster