**🔰 1. Getting Started**

* **Install the CLI**:  
  <https://cloud.google.com/sdk/docs/install>
* **Initialize & Configure**:
* gcloud init
* gcloud auth login
* gcloud config set project [PROJECT\_ID]
* **Cheat Sheet**:  
  [gcloud CLI cheat sheet (official)](https://cloud.google.com/sdk/docs/cheatsheet)

**📁 2. Core Concepts**

* **Projects**:
* gcloud projects list
* gcloud projects create my-project
* **Authentication & Configuration**:
* gcloud auth list
* gcloud config list
* **Billing**:
* gcloud beta billing accounts list
* gcloud beta billing projects link [PROJECT\_ID] --billing-account=[ACCOUNT\_ID]

**🧠 3. Command-by-Command Practice**

**Compute Engine**

gcloud compute instances create my-vm --zone=us-central1-a

gcloud compute instances list

**Cloud Storage**

gcloud storage buckets create my-bucket --location=us

gcloud storage cp file.txt gs://my-bucket/

**IAM**

gcloud iam roles list

gcloud projects add-iam-policy-binding [PROJECT\_ID] \

--member=[user:example@gmail.com](mailto:user%3Aexample@gmail.com) --role=roles/viewer

**Cloud Functions**

gcloud functions deploy helloWorld \

--runtime=nodejs18 \

--trigger-http \

--allow-unauthenticated

**Pub/Sub**

gcloud pubsub topics create my-topic

gcloud pubsub subscriptions create my-sub --topic=my-topic

**BigQuery**

gcloud bigquery datasets create my\_dataset

gcloud bigquery tables create my\_dataset.my\_table \

--schema=name:string,age:integer

**📘 4. Official Documentation**

* **Main CLI Docs**:  
  <https://cloud.google.com/sdk/gcloud>
* **Reference by Service**:  
  <https://cloud.google.com/sdk/gcloud/reference>
* **Interactive Tutorials**:
  + [Qwiklabs](https://www.cloudskillsboost.google/)
  + Look for labs with “gcloud” usage