

Here are some basic **gcloud CLI commands** to help you manage Google Cloud resources. They are categorized based on common tasks:

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## 1. Authentication and Configuration

- **Authenticate with Google Cloud:**
    - `gcloud auth login`
  - **Set a default project:**
    - `gcloud config set project [PROJECT_ID]`
  - **View current configuration:**
    - `gcloud config list`
  - **Unset a configuration:**
    - `gcloud config unset [PROPERTY_NAME]`
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## 2. Projects

- **List all projects:**
    - `gcloud projects list`
  - **Create a new project:**
    - `gcloud projects create [PROJECT_ID]`
  - **Delete a project:**
    - `gcloud projects delete [PROJECT_ID]`
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## 3. Compute Engine

- **List VM instances:**
    - `gcloud compute instances list`
  - **Start a VM instance:**
    - `gcloud compute instances start [INSTANCE_NAME] --zone [ZONE]`
  - **Stop a VM instance:**
    - `gcloud compute instances stop [INSTANCE_NAME] --zone [ZONE]`
  - **Create a new VM instance:**
    - `gcloud compute instances create [INSTANCE_NAME] --zone [ZONE] --machine-type [MACHINE_TYPE]`
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## 4. Storage

- **List buckets:**
    - `gcloud storage buckets list`
  - **Create a bucket:**
    - `gcloud storage buckets create [BUCKET_NAME] --location [LOCATION]`
  - **Upload a file to a bucket:**
    - `gcloud storage cp [LOCAL_FILE_PATH] gs://[BUCKET_NAME]`
  - **Download a file from a bucket:**
    - `gcloud storage cp gs://[BUCKET_NAME]/[FILE_NAME] [LOCAL_PATH]`
  - **Delete a bucket:**
    - `gcloud storage buckets delete [BUCKET_NAME]`
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## 5. Kubernetes Engine (GKE)

- **List clusters:**
    - `gcloud container clusters list`
  - **Get cluster credentials:**
    - `gcloud container clusters get-credentials [CLUSTER_NAME] --zone [ZONE]`
  - **Deploy an application:**
    - `kubectl apply -f [DEPLOYMENT_FILE.yaml]`
  - **Delete a cluster:**
    - `gcloud container clusters delete [CLUSTER_NAME] --zone [ZONE]`
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## 6. Cloud Functions

- **List functions:**
    - `gcloud functions list`
  - **Deploy a function:**
    - `gcloud functions deploy [FUNCTION_NAME] --runtime [RUNTIME] --trigger-[EVENT_TYPE]`
  - **Delete a function:**
    - `gcloud functions delete [FUNCTION_NAME]`
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## 7. Billing

- **List billing accounts:**
  - gcloud beta billing accounts list
  - **Link a project to a billing account:**
  - gcloud beta billing projects link [PROJECT\_ID] --billing-account [ACCOUNT\_ID]
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## 8. Logs and Monitoring

- **View logs:**
  - gcloud logging read "resource.type=[RESOURCE\_TYPE]" --limit [NUMBER\_OF\_LOGS]
  - **Stream logs:**
  - gcloud logging tail
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## 9. IAM

- **List IAM roles:**
  - gcloud iam roles list
  - **Add an IAM policy binding:**
  - gcloud projects add-iam-policy-binding [PROJECT\_ID] --member [MEMBER] --role [ROLE]
  - **Remove an IAM policy binding:**
  - gcloud projects remove-iam-policy-binding [PROJECT\_ID] --member [MEMBER] --role [ROLE]
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## 10. Miscellaneous

- **Check gcloud CLI version:**
  - gcloud version
  - **Update gcloud CLI:**
  - gcloud components update
  - **List available services:**
  - gcloud services list
  - **Enable a service:**
  - gcloud services enable [SERVICE\_NAME]
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