**Cloud SDK – gcloud cli**

* **Ref:** <https://cloud.google.com/sdk/docs/cheatsheet>

1. **Manage multiple gcloud config configurations**
   1. gcloud config configurations create leoconfig
   2. gcloud config configurations list
   3. gcloud config configurations activate leoconfig
   4. gcloud config set core/account pythonrocks@gmail.com
   5. gcloud projects list
   6. gcloud config set project mygcp-proj
2. **Switch gcloud context with gcloud config**
   1. gcloud config list
   2. gcloud config set account pythonrocks@gmail.com
   3. gcloud config set project mygcp-proj
   4. gcloud config set compute/region us-west1
   5. gcloud config set compute/zone us-west1-a
3. **Credentials**
   1. *# List all credentialed accounts.*

gcloud auth list

* 1. *# to authenticate with a user identity (via web flow) which then authorizes gcloud and other SDK tools to access Google Cloud Platform.*

gcloud auth login

* 1. # Display the current account's access token.

gcloud auth print-access-token

* 1. gcloud auth application-default login

1. **Projects**
   1. # create a project

gcloud projects create ${PROJECT\_ID} --organization=${ORGANIZATION\_ID} --folder=${FOLDER\_ID}

* 1. # link the project with a given billing account

gcloud beta billing projects link ${PROJECT\_ID} --billing-account ${BILLING\_ACCOUNT\_ID}

1. **Zones & Regions**
   1. gcloud compute zones list --filter=region:us-central1
   2. # list regions

gcloud compute regions list

1. **Compute Engine**
   1. gcloud compute instances create [INSTANCE\_NAME] --image-family [IMAGE\_FAMILY] --image-project [IMAGE\_PROJECT] --create-disk image=[DISK\_IMAGE],imageproject=[DISK\_IMAGE\_PROJECT],size=[SIZE\_GB],type=[DISK\_TYPE]
   2. gcloud compute instances create micro1 --zone=us-west1-a --machine-type=f1-micro --subnet=default --network-tier=PREMIUM --maintenance-policy=MIGRATE --service-account=398028291895-compute@developer.gserviceaccount.com --scopes=https://www.googleapis.com/auth/devstorage.read\_only,https://www.googleapis.com/auth/logging.write,https://www.googleapis.com/auth/monitoring.write,https://www.googleapis.com/auth/servicecontrol,https://www.googleapis.com/auth/service.management.readonly,https://www.googleapis.com/auth/trace.append --min-cpu-platform=Automatic --image=debian-9-stretch-v20180510 --image-project=debian-cloud --boot-disk-size=10GB --boot-disk-type=pd-standard --boot-disk-device-name=micro1
2. **Lab Commands:**
   1. gcloud init
   2. gcloud auth login
   3. gcloud version
   4. gcloud auth list
   5. gcloud components update
   6. gcloud config list

--Revoke credentials for an account

* 1. gcloud auth revoke mailid@gmail.com
  2. gcloud config configurations list
  3. gcloud config configurations activate [CONFIGURATION]
  4. gcloud config set project brave-attic-354007
  5. gcloud projects create "dev-apps-123"
  6. gcloud config set project dev-apps-123
  7. gcloud config set compute/zone us-central1-c
  8. gcloud config set compute/region us-central1
  9. gcloud compute instances create my-instance-1
  10. gcloud compute instances list