GCP - gcloud CLI

Contents

General

Command:
gcloud auth login
Description:
Authenticate/login to account

Command:
gcloud config set project [project_ID]
Description:
Set the active project

Compute Instance

Command:
gcloud compute instances create [INSTANCE_NAME]
Flags:
--zone=[ZONE] --machine-type=[MACHINE_TYPE] --image-family=[IMAGE_FAMILY] --image-project=[IMAGE_PROJECT] --boot-disk-size=[DISK_SIZE] --network=[NETWORK_NAME] --subnet=[SUBNET_NAME]
Description:
Creates a new compute instance with a specified name. It is started by default

Command:
gcloud compute instances start [INSTANCE_NAME]
Flags:
--zone=[ZONE]
Description:
Starts up an existing compute engine instance

Command:
gcloud compute instances stop [INSTANCE_NAME]
Flags:
--zone=[ZONE]
Description:
Shuts down an existing compute engine instance

Command:
gcloud compute instances reset [INSTANCE_NAME]
Flags:
--zone=[ZONE]
Description:
Restarts an existing compute engine instance

Command:
gcloud compute instances delete [INSTANCE_NAME]
Flags:
--zone=[ZONE]
Description:
Deletes an existing compute engine instance

Command:
gcloud compute ssh [INSTANCE_NAME]
Flags:
--zone=[ZONE]
Description:
SSH into a compute engine instance

Command:
gcloud compute instances list
Description:
List all instances in project

Command:
gcloud compute instances describe [INSTANCE_NAME]
Flags:
--zone=[ZONE]
Description:
Get information about a specific instance

Command:
gcloud compute instances add-tags [INSTANCE_NAME]
Flags:
--tags=[ExampleTag1,ExampleTag2] --zone=[ZONE]
Description:
Add network tag(s) to an instance

Command:
gcloud compute instances remove-tags [INSTANCE_NAME]
Flags:
--tags=[ExampleTag1,ExampleTag2] --zone=[ZONE]
Description:
Remove network tag(s) from an instance

App Engine

Limited to one instance per project. Instance_ID for an app engine will be the projects id.

Command:
gcloud services enable appengine.googleapis.com
Description:
Enable app engine API

Command:
gcloud app create
Flags:
--region=[REGION]
Description:
Create an app engine

Command:
gcloud app deploy || gcloud app deploy [APP.YAML]
Description:
Deploy your YAML file to the app engine

Command:
gcloud app instances list
Description:
List your app instance

Command:
gcloud app instances ssh [INSTANCE_ID]
Description:
ssh into the app engine

Command:
gcloud app instances delete [INSTANCE_ID]
Description:
Delete app engine

Cloud Run

Command:
gcloud run deploy [SERVICE_NAME]
Flags:
--image=[IMAGE_URL] --platform=managed --region=[REGION] --set-env-vars=[KEY1]=[VALUE1],[KEY2]=[VALUE2]
Description:
Deploy to a new cloud run service

Command:
gcloud run services list
Flags:
--platform=managed --region=[REGION]
Description:
Deploy to a new cloud run service

Command:
gcloud run services delete [SERVICE_NAME] --platform=managed --region=[REGION]
Description:
Delete a cloud run service

VPC - Virtual Private Cloud

Command:
gcloud compute networks create [NETWORK_NAME]
Flags:
--subnet-mode=custom
--subnet-mode=auto
Description:
Create a VPC network

Command:
gcloud compute networks list
Description:
List all VPC networks

Command:
gcloud compute networks describe [NETWORK_NAME]
Description:
Describe a specific VPC network

Command:
gcloud compute networks delete [NETWORK_NAME]
Description:
Delete a VPC network

Command:
gcloud compute networks subnets create [SUBNET_NAME]
Flags:
--network=[NETWORK_NAME]
--range=[IP_RANGE]
--region=[REGION]
Description:
Create a VPC subnet

Command:
gcloud compute networks subnets list --network=[NETWORK_NAME]
Description:
List all subnets of a VPC network

Command:
gcloud compute networks subnets describe [SUBNET_NAME]
Description:
Describe a specific subnet

Command:
gcloud compute networks peerings create [PEERING_NAME]
Flags:
--network=[NETWORK_NAME] --peer-network=[PEER_NETWORK_NAME
Description:
Create a VPC peering connection

Command:
gcloud compute networks peerings list
Flags:
--network=[NETWORK_NAME]
Description:
List peerings in a VPC network

Command:
gcloud compute networks peerings delete [PEERING_NAME]
Flags:
--network=[NETWORK_NAME]
Description:
Delete a peering

Command:
gcloud compute shared-vpc enable [PROJECT_ID]
Description:
Enable VPC sharing

Command:
gcloud compute shared-vpc associated-projects add [SERVICE_PROJECT_ID]
Flags:
--host-project=[HOST_PROJECT_ID]
Description:
Add a project to the shared VPC

Firewall rules

Command:
gcloud compute firewall-rules create [RULE_NAME]
Flags:
--network=[NETWORK_NAME] --allow=[PROTOCOL]:[PORT_RANGE] --deny=[PROTOCOL]:[PORT_RANGE] --source-ranges=[SOURCE_IP_RANGE] --target-tags=[TAG] --priority=[PRIORITY] --direction=INGRESS || direction=EGRESS --action=ALLOW || DENY
Description:
Configure firewall rules

Command:
gcloud compute firewall-rules list
Description:
List all firewall rules

Command:
gcloud compute firewall-rules delete [RULE_NAME]
Description:
Delete a firewall rule

Cloud SQL

Command:
gcloud sql instances create [INSTANCE_NAME]
Flags:
--database-version=[DATABASE_VERSION] --tier=[TIER] --region=[REGION]
Description:
Start up a cloud sql instance
Example:
gcloud sql instances create [INSTANCE_NAME] --database-version=MYSQL_8_0 --tier=db-f1-micro

Command:
gcloud compute firewall-rules delete [RULE_NAME]
Description:
gcloud sql instances delete [INSTANCE_NAME]

SSH & Uploading

Command:
gcloud compute scp [LOCAL_FILE_PATH] [INSTANCE_NAME]:[REMOTE_PATH]
Flags:
--zone=[ZONE]
Description:
Copy from local machine into compute engine