

## GLOBAL FLAGS

Some flags are available throughout the gcloud experience, like:

### --help

For when in doubt

### --project

If using a project other than the current one

### --quiet

Disable interactive prompts (and apply default values for inputs)

### --verbosity

Can set verbosity levels at [debug](#), [info](#), [warning](#), [error](#), [critical](#), and [none](#)

### --version

Display gcloud version information (*only available at the global level*)

### --format

Set output format as [config](#), [csv](#), [default](#), [diff](#), [disable](#), [flattened](#), [get](#), [json](#), [list](#), [multi](#), [none](#), [object](#), [table](#), [text](#), [value](#), or [yaml](#).

## CLEANING UP RESULTS

Extricate the most from your output with the filter, format, limit, and sort-by flags. Examples:

```
gcloud compute instances list
--filter="zone ~ ^us AND
-machineType:f1-micro"
```

For Compute Engine instances with prefix us and not machine type f1-micro

```
gcloud projects list
--format="table(projectNumber,project
Id,createTime.date(tz=LOCAL))"\
--filter="createTime>=2018-01-15T12:0
0:00" --sort-by=createTime
```

For a list of projects created on or after 15 January 2018, sorted from oldest to newest, presented as a table with project number, project id and creation time columns with dates and times in local timezone

```
gcloud compute instances list
--filter="labels.my-label:*"
--limit=10
```

For a list of ten Compute Engine instances with a label my-label (of any value)

## DISCOVERING COMMANDS

The gcloud command-line tool is a tree; non-leaf nodes are command groups and leaf nodes are commands. (Also, tab completion works for commands and resources!)

Most gcloud commands follow the following format:

**gcloud** + **release level** (*optional*) + **component** + **entity** + **operation** + **positional args** + **flags**

For example:

**gcloud** + **compute** + **instances** + **create** + **example-instance-1** + **--zone=us-central1-a**

Where:

**Release Level** refers to the command's release status

- **alpha** or **beta**. GA (General Availability) commands require no release level specification

**Component** refers to different Google Cloud services

- **compute** for Compute Engine, **app** for App Engine, ect.

**Entity** refers to the plural form of an element or collection of elements under a component

- **disks**, **firewalls**, **images**, **instances**, **regions**, **zones** for compute

**Operation** refers to the imperative verb form of the operation to be performed on the entity

- common operations are **describe**, **list**, **create/update**, **delete/clear**, **import**, **export**, **copy**, **remove**, **add**, **reset**, **restart**, **restore**, **run**, and **deploy**

**Positional args** refer to the required, order-specific arguments needed to execute the command

- **INSTANCE\_NAMES** is the required positional argument for gcloud compute instances create

**Flags** refer to the additional arguments, **--flag-name(=value)**, passed in to the command after positional args

- **--machine-type=MACHINE\_TYPE** and **--preemptible** are optional flags for gcloud compute instances create



<https://cloud.google.com/sdk/gcloud/reference/>

## GCLOUD COMMAND-LINE TOOL



<https://cloud.google.com/sdk/gcloud/reference/>

## GETTING STARTED

### gcloud init

Initialize, authorize, and configure gcloud

### gcloud version

Display version and installed components

### gcloud components install

Install specific components \*

### gcloud components update

Update Cloud SDK to the latest version \*

### gcloud config set project

Set a default Cloud Platform project to work on

### gcloud info

Display current gcloud environment details

### gcloud help

Search gcloud reference documents for specific terms

### gcloud feedback

Provide feedback for the Cloud SDK team

### gcloud topic

Supplementary help material for non-command topics like accessibility, filtering, and formatting

\* For apt-get and yum, see <https://cloud.google.com/sdk/install>

## PERSONALIZATION

### gcloud config set

Define a property (like compute/zone) for current configuration

### gcloud config get-value

Fetch value of a Cloud SDK property

### gcloud config list

Display all the properties for the current configuration

### gcloud config configurations create

Create a new named configuration

## PERSONALIZATION (CONT.)

### gcloud config configurations list

Display a list of all available configurations

### gcloud config configurations activate

Switch to an existing named configuration

## CREDENTIALS

### gcloud auth login

Authorize access for gcloud with Google user credentials and set current account as active

### gcloud auth activate-service-account

Like gcloud auth login but with service account credentials

### gcloud auth list

List all credentialed accounts

### gcloud auth print-access-token

Display the current account's access token

### gcloud auth revoke

Remove access credentials for an account

### gcloud projects describe

Display metadata for a project (including its ID)

### gcloud projects add-iam-policy-binding

Add an IAM policy binding to a project

## GOOGLE KUBERNETES ENGINE (GKE)

### gcloud auth configure-docker

Register gcloud as a Docker credential helper

### gcloud container clusters create

Create a cluster to run GKE containers

### gcloud container clusters list

List clusters to run GKE containers

### gcloud container clusters get-credentials

Update kubeconfig to get kubectl to use a GKE cluster

### gcloud container images list-tags

List tag and digest metadata for a container image

## IDENTITY & ACCESS MANAGEMENT (IAM)

### gcloud iam list-grantable-roles

List IAM grantable roles for a resource

### gcloud iam roles create

Create a custom role for a project or org

### gcloud iam service-accounts create

Create a service account for a project

### gcloud iam service-accounts keys list

List a service account's keys

### gcloud iam service-accounts add-iam-policy-binding

Add an IAM policy to a service account

### gcloud iam service-accounts set-iam-policy

Replace existing IAM policy

## COMPUTE ENGINE

### gcloud compute zones list

List Compute Engine zones

### gcloud compute instances describe

Display a virtual machine (VM) instance's details

### gcloud compute instances list

List all VM instances in a project

### gcloud compute disks snapshot

Create snapshot of persistent disks

### gcloud compute snapshots describe

Display a specified snapshot's details

### gcloud compute snapshots delete

Delete a snapshot

### gcloud compute ssh

Connect to a VM instance by using SSH

## APP ENGINE

### gcloud app deploy

Deploy your app's code and configuration to App Engine server

### gcloud app versions list

List all versions of all services deployed to the App Engine server

### gcloud app browse

Open the current app in a web browser

### gcloud app create

Create an App Engine app within your current project

### gcloud app logs read

Display the latest App Engine app logs

## MISCELLANEOUS

### gcloud kms decrypt

Decrypt ciphertext (to a plaintext file) using a Cloud Key Management Service (KMS) key

### gcloud logging logs list

List your project's logs

### gcloud sql backups describe

Display info about a Cloud SQL instance backup

### gcloud sql export sql

Export data from a Cloud SQL instance to a SQL file

## INSTALLING THE CLOUD SDK

Docs and installation instructions:

<https://cloud.google.com/sdk/docs/>

## FLAGS & ARGUMENTS

Arguments can be [positional args](#), which are set after command name and must respect the order of positional args or [flags](#), which are set after positional args where the order of flags doesn't matter.

A flag is either a [name-value pair](#) (`--foo=bar`) or [boolean](#) (`--force/no-force`). Additionally, flags can either be [required](#) or [optional](#). When optional, the default value is used if the flag isn't defined.

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