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

Extract 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,projectId,createTime.date(tz=LOCAL))"
--filter="createTime>=2018-01-15T12:00:00" --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 compute instances list

For example:

gcloud compute instances list

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, etc.

- **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

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

G C L O U D  C O M M A N D - L I N E  T O O L

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