



Google Certified

# Associate Cloud Engineer

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# Lesson Plan

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## 4.1 gcloud Overview

- [gcloud](#) command-line interface is a tool that provides the primary CLI to Google Cloud Platform
- gcloud CLI is a part of the Google Cloud SDK
- More powerful than console, but less than REST API.

You can perform following actions:

- Google Compute Engine virtual machine instances and other resources
- Google Cloud SQL instances
- Google Kubernetes Engine clusters
- Google Cloud Dataproc clusters and jobs
- Google Cloud DNS managed zones and record sets
- Google Cloud Deployment manager deployments.

## 4.2 gcloud Installation and Initialization

- [Installation](#)
- [Initialization](#)

- Run Terminal on local PC
  - Install gcloud
  - `# gcloud components list`
  - `# gcloud components install kubectl`
  - `# gcloud components install gsutil`

## 4.3 gcloud basic syntax

- gcloud <global flags>  
<service/product> <group/area>  
<command> <flags> <parameters>
  - See [syntax guide](#)
  - Drills down from left to right
- Run Terminal on local PC
    - # gcloud --project myproject compute instances list
    - # gcloud services list --enabled

## 4.4 gcloud Global flags

- `-- help`
- `-h`
- `--project <ProjectId>`
- `--account <Account>`
- `--filter`
  - better than `grep`
- `--format`
  - can choose JSON, YAML, CSV
- `--quiet` (or `-q`)
  - will not prompt for dangerous actions

## 4.5 gcloud Config Properties

- Values entered once will be used by any command that need them.
- Can be overridden on a specific command with corresponding flag.
- Used very often for account, project, region, and zone
- Set with `gcloud config set <property> <value>`
- Check with `gcloud config get-value <property>`
- Clear with `gcloud config unset <property>`

- Run Terminal on local PC
  - `# gcloud config set project myprojectid`
  - `# gcloud config get-value project`
  - `# gcloud config unset project`

## 4.6 gcloud Configurations

- [Configurations](#) Can maintain groups of settings and switch between them
  - Most useful when using multiple projects
  - Interactive workflow to set common properties in config with gcloud init
  - List all properties in a configuration with gcloud config list
  - List all configurations with gcloud config configurations list
  - Configurations are like directories, both act as container.
- Run Terminal on local PC
    - # gcloud config list
    - # gcloud config configurations list
    - # gcloud config configurations create MY\_CONFIG
    - # gcloud config configurations activate MY\_CONFIG