Google Cloud Cheat Sheet

by Nilesh (niparkhe) via cheatography.com/129317/cs/25717/

GCloud

Gcloud command syntax	gcloud <global flags> <service/product> <group/area> <command> <flags> <parameters>
global flags format	--project myprojid OR --project=myprojid
Set config property	gcloud config **set** <property> <value>
Check config property	gcloud config **get-value** <property>
Remove config property	gcloud config **unset** <property>
Interactive config creation	gcloud init
List all properties in a configuration	gcloud config list
List all configurations	gcloud config configurations list
Make new configuration	gcloud config configurations create <NewConfigName>
Switch to an existing config	gcloud config configurations activate <NewConfigName>
Specify config in a command	--configuration=ITS_NAME ex. gcloud --configuration=newconfig config list

Global Flags

--help, -h, --project <ProjectID>, --account <Account>, --filter, --format <JSON, YAML, CSV>, --quite, -q

Config Properties

* Set "core/account" or "account" to replace "--account"
* Set "core/project" or "project" to replace "--project"
* Set "compute/region" to replace "--region"
* Set "compute/zone" to replace "--zone"

Global Flags

--account	User account to use for invocation
--billing-project	GCP Object that will be charged quota for operations performed in gcloud. Use this flag when you want to use resources from project, but billed to a different project.
--configuration	configuration to be used for this invocation.

Global Flags (cont)

--flags-file	A YAML or JSON file that specifies a --flag:value dictionary
--flatten=[KEY,...]	Flatten output resources slices in KEY into separate records for each item in each slice.
--format	Format for printing command output resources.
--help	Display detailed help
--project	Specify projectId to be used in this invocation
--quiet	Disable all interactive prompts.
--verbosity	one of **debug, info, warning, error, critical, none**
--version, -v	Print version and exit
-h	Print summary help and exit.

GCloud 2

Get info on a topic	gcloud topic filters

System Administration

Get user	whoami
Get Machine name	hostname
Get IP address of current machine	curl api.ipify.org
Ping with limited repetitions	ping -c 3 myhappyvm
SSH to the instance	gcloud compute ssh myhappyvm
Get info stored by metadata service	curl **-H "Metadata-Flavor:google"** metadata.google.internal/computeMetadata/v1/

We can ping a Compute instance only using the external IP of the instance.

It is not possible to SSH directly to an instance. Hence use **gcloud compute ssh**

We can drill down into the Metadata service file system using the Curl Output.

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Project

Create a project	gcloud projects create [PROJECT_ID] [--folder=FOLDER_ID] [--labels=[KEY=VALUE,...]][--name=NAME][--set-as-default]
List all projects for active account	gcloud projects list [--filter=EXPRESSION][--limit=LIMIT][--page-size=PAGE_SIZE][--sort-by=[FIELD,...]][--uri]]
Delete a project	gcloud projects delete PROJECT_ID_OR_NUMBER
Print Metadata of a project	gcloud projects describe PROJECT_ID_OR_NUMBER
Undelete a project	gcloud projects undelete PROJECT_ID_OR_NUMBER
Update name of a project	gcloud projects update PROJECT_ID --name=NAME

You can add Project Wide Flags at the end of all of the above commands.
--accounts, --billing-project, --configuration, --flags-file, --flatten, --format, --help, --impersonate-service-account, --log-http, --project, --quiet, --trace-token, --user-output-enabled, --verbosity

Run **$ gcloud help** for details

Components, SDK

List all installed components	gcloud components list
Install auto-completion tool	sudo apt-get install google-cloud-sdk
Enable auto-completion tool	gcloud beta interactive

PubSub

Create a topic	gcloud pubsub topics create myTopic
List all topics	gcloud pubsub topics list

PubSub (cont)

Delete a topic	gcloud pubsub topics delete Test1
Create a subscription for topic myTopic	gcloud pubsub subscriptions create --topic myTopic mySubscription
Delete a subscription	gcloud pubsub subscriptions delete Test1
Publish a message to a topic	gcloud pubsub topics publish myTopic --message "Message"
Pull a published message	gcloud pubsub subscriptions pull mySubscription --auto-ack
Pull all published messages	gcloud pubsub subscriptions pull mySubscription --auto-ack --limit=3

Once a message is pulled, it is deleted from the queue.
Messages are pulled randomly.

Compute

Create an instance	gcloud compute instances create <myvm>
Delete an instance	gcloud compute instances delete <myvm>
Get List of instances	gcloud compute instances list
Get list of machine types	gcloud compute machine-types list
Limit list of machine types	gcloud compute machine-types list --filter="NAME:f1-micro AND ZONE~us-west"
SSH to an instance	gcloud compute ssh myhappyvm

gcloud compute ssh will create the SSH keys if it is being run for the first time for an instance.

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Services

Get list of services	gcloud services list
Get list of enabled services	gcloud services list --enabled
Get list of available services	gcloud services list --available
Get list of available services containing "compute"	gcloud services list --available | grep compute

Storage

CLI for accessing storage API	gsutil
List all storage buckets	gsutil ls
List objects in a bucket	gsutil ls gs://storage-lab-console
List all objects in a folder	gsutil ls gs://storage-lab-console/** This lists all objects in a flat structure
Create Bucket	gsutil mb [-c class] [-l location] [-p proj_id] gs://new-bucket-name
Get labels for bucket in JSON format	gsutil label get gs://storage-lab-cli/
Add label to bucket	gsutil label ch -l "extralabel:extravalue" gs://storage-lab-cli/
Set labels for a bucket	gsutil label set labels.json gs://storage-lab-cli/
Check status of versioning on bucket	gsutil versioning get gs://storage-lab-cli
Turn on versioning for bucket	gsutil versioning set on gs://storage-lab-cli
Turn off versioning for bucket	gsutil versioning set off gs://storage-lab-cli

Storage (cont)

Delete a file from bucket	gsutil rm gs://storage-lab-cli/README.txt
Make a file public in a storage bucket	gsutil acl ch -u AllUsers:R gs://storage-lab-cli/Selfie.jpg
Remove public access for file	gsutil acl ch -d AllUsers gs://storage-lab-cli/Selfie.jpg

BigQuery

Examine schema of the Shakespeare table in samples dataset	bq show bigquery-public-data:samples.shakespeare
Get help on query command	bq help query
Get list of all commands used by bigquery	bq help
List existing projects in the dataset	bq ls
List datasets in a public dataset project	bq ls bigquery-public-data:
Create a dataset	bq mk babynames
Run a query on BigQuery dataset	bq query --use_legacy=false 'SELECT word FROM ...'
Create or update a table AND load data	bq load <dataset_name>.<table_name> <local_file> name:string,gender:string,count:integer
List tables in a BQ dataset	bq ls babynames
Examine schema of a dataset table	bq show <dataset_name>.<table_name>

--use_legacy=false is an optional flag.

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