

## **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></parameters></flags></group></service></global>
global flags format	project myprojid ORproject=myprojid
Set config property	gcloud config set <pre><pre>cproperty&gt; <value></value></pre></pre>
Check config property	gcloud config <b>get-value</b> <pre>property&gt;</pre>
Remove config property	gcloud config unset <pre><pre>cproperty&gt;</pre></pre>
Interactive config creation	gcloud init
List all properties in a configuration	gcloud config list
List all configura- tions	gcloud config configurations list
Make new config- uration	gcloud config configurations create <newconfigname></newconfigname>
Switch to an existing config	gcloud config configurations activate <newco-nfigname></newco-nfigname>
Specify config in a command	configuration=ITS_NAME ex. gcloudconfiguration=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
bill- ing-pr- oject	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.
conf- iguration	configuration to be used for this invocation.

Global Flags (cont)		
flags-file	A YAML or JSON file that specifies aflag: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.	
verb- osity	one of debug, info, warning, error, critical, none	
version,	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	curl api.ipify.org
	current machine	
	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.g- oogle.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=FO-LDER_ID] [labels=[KEY=VALUE,]][name=NA-ME][set-as-default]
List all projects for active account	gcloud projects list [filter=EXPRESSION][limit=-LIMIT][page-size=PAGE_SIZE][sort-by=[FIEL-D,]][uri]]
Delete a project	gcloud projects delete PROJECT_ID_OR_NUMBER
Print Metadata of a project	gcloud projects describe PROJECT_ID_OR_N-UMBER
Undelete a project	gcloud projects undelete PROJECT_ID_OR_N-UMBER
Update name of a project	gcloud projects update PROJECT_IDname=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 createtopic 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 mySubscriptionauto-ack
Pull all published messages	gcloud pubsub subscriptions pull mySubscriptionauto-acklimit=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></myvm>
Delete an instance	gcloud compute instances delete <myvm></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 listfilter="NAM- E: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 listenabled
Get list of available services	gcloud services listavailable
Get list of available services	gcloud services listavailable
containing "compute"	grep compute

04	
Storage	
CLI for accessing	gsutil
storage API	
List all storage buckets	gsutil Is
List objects in a bucket	gsutil ls gs://storage-lab-console
List all objects in a	gsutil Is gs://storage-lab-console/**
folder	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	gsutil label get gs://storage-lab-cli/
JSON format	
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-la-
	b-cli/
Check status of	gsutil versioning get gs://storage-lab-cli
versioning on bucket	
Turn on versioning for	gsutil versioning set on gs://storage-lab-cli
bucket	
Turn off versioning for	gsutil versioning set off gs://storage-lab-cli
bucket	

Storage (cont)	
Delete a file from bucket	gsutil rm gs://storage-lab-cli/REA- DME.txt
Make a file public in a storage bucket	gsutil acl ch -u AllUsers:R gs://stor- age-lab-cli/Selfie.jpg
Remove public access for file	gsutil acl ch -d AllUsers gs://storage-la- b-cli/Selfie.jpg

BigQuery	
Examine schema of the Shakespeare table in samples dataset	bq show bigquery-public-data:sample- s.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 Is
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 queryuse_legacy=false 'SELECT word FROM'
Create or update a table AND load data	bq load <dataset_name>.<table_na- me&gt; <local_file> name:string,gender:st- ring,count:integer</local_file></table_na- </dataset_name>
List tables in a BQ dataset	bq ls babynames
Examine schema of a dataset table	bq show <dataset_name>.<table_na- me&gt;</table_na- </dataset_name>

--use\_legacy=false is an optional flag.

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