

# 1 GCP CheatSheet

# CLOUD

- PDF Link: [cheatsheet-gcp-A4.pdf](#), Category: Cloud
- Blog URL: <https://cheatsheet.dennyzhang.com/cheatsheet-gcp-A4>
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## 1.1 GCP Basic

Name	Summary
Official Doc	Link: <a href="#">gcloud reference</a> , Link: <a href="#">gsutil tool</a>
gsutil installation	Link: <a href="#">install crcmod</a> , Link: <a href="#">Install gsutil</a>
Installation	Link: <a href="#">Install gcloud</a>
Check version & settings	<code>gcloud version</code> , <code>gcloud info</code> , <code>gcloud components list</code>
Init profile	<code>gcloud init</code> This will ask you to open an OpenID URL
List all zones	<code>gcloud compute zones list</code>
Upgrade local SDK	<code>gcloud components update</code> , <code>gcloud components update --version 219.0.1</code>

## 1.2 Bucket Basic

Name	Summary
List all buckets and files	<code>gsutil ls</code> , <code>gsutil ls -lh gs://&lt;bucket-name&gt;</code>
Download file	<code>gsutil cp gs://&lt;bucket-name&gt;/&lt;dir-path&gt;/package-1.1.tgz .</code>
Upload file	<code>gsutil cp &lt;filename&gt; gs://&lt;bucket-name&gt;/&lt;directory&gt;/</code>
Cat file	<code>gsutil cat gs://&lt;bucket-name&gt;/&lt;filepath&gt;/</code>
Delete file	<code>gsutil rm gs://&lt;bucket-name&gt;/&lt;filepath&gt;</code>
Move file	<code>gsutil mv &lt;src-filepath&gt; gs://&lt;bucket-name&gt;/&lt;directory&gt;/&lt;dest-filepath&gt;</code>
Copy folder	<code>gsutil cp -r ./conf gs://&lt;bucket-name&gt;/</code>
Show disk usage	<code>gsutil du -h gs://&lt;bucket-name&gt;/&lt;directory&gt;</code>
Create bucket	<code>gsutil mb gs://&lt;bucket-name&gt;</code>
Calculate file shasum	<code>gsha1sum syslog-migration-10.0.2.tgz</code> , <code>shasum syslog-migration-10.0.2.tgz</code>
Gsutil help	<code>gsutil help</code> , <code>gsutil help cp</code> , <code>gsutil help options</code>
Reference	Link: <a href="#">Quickstart: Using the gsutil Tool</a>

## 1.3 GCP Project

Name	Summary
List projects	<code>gcloud config list</code> , <code>gcloud config list project</code>
Show project info	<code>gcloud compute project-info describe</code>
Switch project	<code>gcloud config set project &lt;project-id&gt;</code>

## 1.4 GKE

Name	Summary
Display a list of credentialed accounts	<code>gcloud auth list</code>
Set the active account	<code>gcloud config set account &lt;ACCOUNT&gt;</code>
Set kubectl context	<code>gcloud container clusters get-credentials &lt;cluster-name&gt;</code>
Change region	<code>gcloud config set compute/region us-west</code>
Change zone	<code>gcloud config set compute/zone us-west1-b</code>
List all container clusters	<code>gcloud container clusters list</code>

## 1.5 IAM

Name	Summary
Authenticate client	<code>gcloud auth activate-service-account --key-file &lt;key-file&gt;</code>
Display a list of credentialed accounts	<code>gcloud auth list</code>
Set the active account	<code>gcloud config set account &lt;ACCOUNT&gt;</code>
Auth to GCP Container Registry	<code>gcloud auth configure-docker</code>
Print token for active account	<code>gcloud auth print-access-token</code> , <code>gcloud auth print-refresh-token</code>
Revoke previous generated credential	<code>gcloud auth &lt;application-default&gt; revoke</code>

## 1.6 Bucket Security

Name	Summary
Make all files readable	<code>gsutil -m acl set -R -a public-read gs://&lt;bucket-name&gt;/</code>
Config auth	<code>gsutil config -a</code>
Grant bucket access	<code>gsutil iam ch user:denny@gmail.com:objectCreator,objectViewer gs://&lt;bucket-name&gt;</code>
Remove bucket access	<code>gsutil iam ch -d user:denny@gmail.com:objectCreator,objectViewer gs://&lt;bucket-name&gt;</code>

## 1.7 VM

Name	Summary
List all instances	<code>gcloud compute instances list, gcloud compute instance-templates list</code>
Show instance info	<code>gcloud compute instances describe "&lt;instance-name&gt;" --project "&lt;project-name&gt;" --zone "us-</code>
Stop an instance	<code>gcloud compute instances stop instance-2</code>
Start an instance	<code>gcloud compute instances start instance-2</code>
Create an instance	<code>gcloud compute instances create vm1 --image image-1 --tags test --zone "&lt;zone&gt;" --machine-</code>
SSH to instance	<code>gcloud compute ssh --project "&lt;project-name&gt;" --zone "&lt;zone-name&gt;" "&lt;instance-name&gt;"</code>
Download files	<code>gcloud compute copy-files example-instance:~/REMOTE-DIR ~/LOCAL-DIR --zone us-central1-a</code>
Upload files	<code>gcloud compute copy-files ~/LOCAL-FILE-1 example-instance:~/REMOTE-DIR --zone us-central1-</code>

## 1.8 Disks & Volumes

Name	Summary
List all disks	<code>gcloud compute disks list</code>
List all disk types	<code>gcloud compute disk-types list</code>
List all snapshots	<code>gcloud compute snapshots list</code>
Create snapshot	<code>gcloud compute disks snapshot &lt;diskname&gt; --snapshotname &lt;name1&gt; --zone \$zone</code>

## 1.9 Network

Name	Summary
List all networks	<code>gcloud compute networks list</code>
Detail of one network	<code>gcloud compute networks describe &lt;network-name&gt; --format json</code>
Create network	<code>gcloud compute networks create &lt;network-name&gt;</code>
Create subnet	<code>gcloud compute networks subnets create subnet1 --network net1 --range 10.5.4.0/24</code>
Get a static ip	<code>gcloud compute addresses create --region us-west2-a vpn-1-static-ip</code>
List all ip addresses	<code>gcloud compute addresses list</code>
Describe ip address	<code>gcloud compute addresses describe &lt;ip-name&gt; --region us-central1</code>
List all routes	<code>gcloud compute routes list</code>
Reference	<code>aleccunningham gist: vpn-setup.sh</code>

## 1.10 DNS

Name	Summary
List of all record-sets in my <sub>zone</sub>	<code>gcloud dns record-sets list --zone my_zone</code>
List first 10 DNS records	<code>gcloud dns record-sets list --zone my_zone --limit=10</code>

## 1.11 Firewall

Name	Summary
List all firewall rules	<code>gcloud compute firewall-rules list</code>
List all forwarding rules	<code>gcloud compute forwarding-rules list</code>
Describe one firewall rule	<code>gcloud compute firewall-rules describe &lt;rule-name&gt;</code>
Create one firewall rule	<code>gcloud compute firewall-rules create my-rule --network default --allow tcp:9200 tcp:3</code>
Update one firewall rule	<code>gcloud compute firewall-rules update default --network default --allow tcp:9200 tcp:3</code>

## 1.12 Images & Containers

Name	Summary
List all images	<code>gcloud compute images list</code>
List all container clusters	<code>gcloud container clusters list</code>
Set kubectl context	<code>gcloud container clusters get-credentials &lt;cluster-name&gt;</code>

## 1.13 RDS

Name	Summary
List all sql instances	<code>gcloud sql instances list</code>

## 1.14 Services

Name	Summary
List my backend services	<code>gcloud compute backend-services list</code>
List all my health check endpoints	<code>gcloud compute http-health-checks list</code>
List all URL maps	<code>gcloud compute url-maps list</code>

## 1.15 More Resources

kelseyhightower gist: [create-global-lb.sh](#)

mingderwang gist: [gistfile1.txt](#)

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