1 GCP CheatSheet   KUBERNETES

- PDF Link: cheatsheet-gcp-A4.pdf, Category: tools

- Blog URL: `https://cheatsheet.dennyzhang.com/cheatsheet-gcp-A4`

- Related posts: AWS CheatSheet, OpenShift CheatSheet, #denny-cheatsheets

File me Issues or star this repo.

1.1 GCP Basic

Name	Summary
Official Doc	Link: gcloud reference, Link: gsutil tool
Check version & settings	`gcloud version`, `gcloud info`, `gcloud components list`
Init profile	`gcloud init` This might ask you to open an OpenID URL
List all zones	`gcloud compute zones list`
Upgrade local SDK	`gcloud components update`, `gcloud components update --version 219.0.1`

1.2 GCP Project

Name	Summary
List projects	`gcloud config list`, `gcloud config list project`
Show project info	`gcloud compute project-info describe`
Switch project	`gcloud config set project <project-id>`

1.3 GKE

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

1.4 IAM

Name	Summary
Authenticate client	`gcloud auth activate-service-account --key-file <key-file>`
Display a list of credentialed accounts	`gcloud auth list`
Set the active account	`gcloud config set account <ACCOUNT>`
Print token for active account	`gcloud auth print-access-token`, `gcloud auth print-refresh-token`
Revoke previous generated credential	`gcloud auth <application-default> revoke`

1.5 Bucket Basic

Name	Summary
List all buckets and files	`gsutil ls`, `gsutil ls -lh gs://<bucket-name>`
Download file	`gsutil cp gs://<bucket-name>/<dir-path>/package-1.1.tgz .`
Upload file	`gsutil cp <filename> gs://<bucket-name>/<directory>/`
Cat file	`gsutil cat gs://<bucket-name>/<filepath>/`
Delete file	`gsutil rm gs://<bucket-name>/<filepath>`
Move file	`gsutil mv <src-filepath> gs://<bucket-name>/<directory>/<dest-filepath>`
Copy folder	`gsutil cp -r ./conf gs://<bucket-name>/`
Show disk usage	`gsutil du -h gs://<bucket-name/<directory>`
Caculate file sha1sum	`shasum syslog-migration-10.0.2.tgz`
Create bucket	`gsutil mb gs://<bucket-name>`
Gsutil help	`gsutil help`, `gsutil help cp`, `gsutil help options`
Reference	Link: Quickstart: Using the gsutil Tool

1.6   Bucket Security

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

1.7   VM

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

1.8   Disks & Volumes

Name	Summary
List all disks	`gcloud compute disks list`
List all disk types	`gcloud compute disk-types list`
List all snapshots	`gcloud compute snapshots list`
Create snapshot	`gcloud compute disks snapshot <diskname> --snapshotname <name1> --zone $zone`

1.9   Network

Name	Summary
List all networks	`gcloud compute networks list`
Detail of one network	`gcloud compute networks describe <network-name> --format json`
Create network	`gcloud compute networks create <network-name>`
Create subnet	`gcloud compute networks subnets create subnet1 --network net1 --range 10.5.4.0/24`
Get a static ip	`gcloud compute addresses create --region us-west2-a vpn-1-static-ip`
List all ip addresses	`gcloud compute addresses list`
Describe ip address	`gcloud compute addresses describe <ip-name> --region us-central1`
List all routes	`gcloud compute routes list`

aleccunningham gist: vpn-setup.sh

1.10   DNS

Name	Summary
List of all record-sets in my_{zone}	`gcloud dns record-sets list --zone my_zone`
List first 10 DNS records	`gcloud dns record-sets list --zone my_zone --limit=10`

1.11   Firewall

Name	Summary
List all firewall rules	`gcloud compute firewall-rules list`
List all forwarding rules	`gcloud compute forwarding-rules list`
Describe one firewall rule	`gcloud compute firewall-rules describe <rule-name>`
Create one firewall rule	`gcloud compute firewall-rules create my-rule --network default --allow tcp:9200 tcp:3`
Update one firewall rule	`gcloud compute firewall-rules update default --network default --allow tcp:9200 tcp:9`

1.12 Images & Containers

Name	Summary
List all images	`gcloud compute images list`
List all container clusters	`gcloud container clusters list`
Set kubectl context	`gcloud container clusters get-credentials <cluster-name>`

1.13 RDS

Name	Summary
List all sql instances	`gcloud sql instances list`

1.14 Services

Name	Summary
List my backend services	`gcloud compute backend-services list`
List all my health check endpoints	`gcloud compute http-health-checks list`
List all URL maps	`gcloud compute url-maps list`

1.15 More Resources

kelseyhightower gist: create-global-lb.sh

mingderwang gist: gistfile1.txt

License: Code is licensed under MIT License.