1 GCP CheatSheet

KUBERNETES

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- PDF Link: cheatsheet-gcp-A4.pdf, Category: tools
- $\bullet \ \operatorname{Blog} \ \operatorname{URL} \colon \texttt{https://cheatsheet.dennyzhang.com/cheatsheet-gcp-A4}$
- \bullet Related posts: AWS CheatSheet, OpenShift CheatSheet, #denny-cheatsheets

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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 updateversion 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></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></account>
Set kubectl context	gcloud container clusters get-credentials <cluster-name></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-accountkey-file <key-file></key-file>
Display a list of credentialed accounts	gcloud auth list
Set the active account	gcloud config set account <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</application-default>

1.5 Bucket Basic

Name	Summary
List all buckets and files	gsutil ls, gsutil ls -lh gs:// <bucket-name></bucket-name>
Download file	<pre>gsutil cp gs://<bucket-name>/<dir-path>/package-1.1.tgz .</dir-path></bucket-name></pre>
Upload file	<pre>gsutil cp <filename> gs://<bucket-name>/<directory>/</directory></bucket-name></filename></pre>
Cat file	<pre>gsutil cat gs://<bucket-name>/<filepath>/</filepath></bucket-name></pre>
Delete file	<pre>gsutil rm gs://<bucket-name>/<filepath></filepath></bucket-name></pre>
Move file	<pre>gsutil mv <src-filepath> gs://<bucket-name>/<directory>/<dest-filepath></dest-filepath></directory></bucket-name></src-filepath></pre>
Copy folder	<pre>gsutil cp -r ./conf gs://<bucket-name>/</bucket-name></pre>
Show disk usage	gsutil du -h gs:// <bucket-name <directory=""></bucket-name>
Caculate file sha1sum	shasum syslog-migration-10.0.2.tgz
Create bucket	gsutil mb gs:// <bucket-name></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>/</bucket-name>
Config auth	gsutil config -a
Grant bucket access	<pre>gsutil iam ch user:denny@gmail.com:objectCreator,objectViewer gs://<bucket-name></bucket-name></pre>
Remove bucket access	<pre>gsutil iam ch -d user:denny@gmail.com:objectCreator,objectViewer gs://<bucket-name></bucket-name></pre>

Updated: November 27, 2018

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-</project-name></instance-name>
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 vm1image image-1tags testzone " <zone>"machine-</zone>
SSH to instance	gcloud compute sshproject " <project-name>"zone "<zone-name>" "<instance-name>"</instance-name></zone-name></project-name>
Download files	gcloud compute copy-files example-instance:~/REMOTE-DIR ~/LOCAL-DIRzone us-central1-a
Upload files	gcloud compute copy-files ~/LOCAL-FILE-1 example-instance:~/REMOTE-DIRzone 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</name1></diskname>	

1.9 Network

Name	Summary
List all networks	gcloud compute networks list
Detail of one network	gcloud compute networks describe <network-name>format json</network-name>
Create network	gcloud compute networks create <network-name></network-name>
Create subnet	gcloud compute networks subnets create subnet1network net1range 10.5.4.0/24
Get a static ip	gcloud compute addresses createregion 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</ip-name>
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 listzone my_zone
List first 10 DNS records	<pre>gcloud dns record-sets listzone my_zonelimit=10</pre>

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></rule-name>	
Create one firewall rule	gcloud compute firewall-rules create my-rulenetwork defaultallow tcp:9200 tcp:	
Update one firewall rule	gcloud compute firewall-rules update defaultnetwork defaultallow tcp:9200 tcp:	

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></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

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