

gcloud Incident Investigation Quick Reference Cheat Sheet by casimkhan via cheatography.com/184196/cs/38390/

GCP Logging

Default Logs

Following are the logs generally available for GCP

Activity Logs: Record of all activity within a user's GCP project, including operations performed by users, systems, and services.

System Logs: Record of system-level events and messages related to the health and performance of GCP services.

Audit Logs: Record of administrative and security-related activity, including authentication and authorization events, resource management operations, and data access events.

IAM commands

gcloud iam - manage IAM service accounts and keys

#To list account name gcloud auth list gcloud auth activate-service-account [ACCOUNT] gcloud auth print-identity-token --impersonate-service-account=-SA@PROJECT_ID.iam.gserviceaccount.com #Check token info curl "https://oauth2.googleapis.com/tokeninfo?id_token=ID_TO-KEN" #Revoke token gcloud auth revoke #Find iam roles for organisation gcloud iam roles list --organization=my-org-id #Find Specific role gcloud iam roles list --organization=my-org-id | grep [role-name]

IAM commands (continue)

#Search iam policies to specific user on project gcloud projects get-iam-policy [project-id] --flatten="bindings-[].members" --filter="example-users@example.com" #Search iam policies to specific user across organization gcloud asset search-all-iam-policies --scope=organizations/[organization_id] --query='policy:example-user@example.com' #Search specific role on specific project gcloud asset search-all-iam-policies --scope=projects/[projectname] --query='policy:roles/owner'

GCP Folders commands

gcloud alpha resource-manager folders - manage Cloud Folders

#List folder for a specific organization
gcloud alpha resource-manager
folders list --organization=my-org-id
#List folder within folder
gcloud alpha resource-manager

folders list --folder=my-folder-id

gcloud SDK

Google Cloud CLI installation

https://cloud.google.com/sdk/docs/install gcloud commands reference

https://cloud.google.com/sdk/gcloud/reference

GCP Projects commands

gcloud projects - create and manage project access policies

#List projects within organization gcloud projects list --filter 'parent.id=my-org-id AND parent.ty-pe=organization'
#List project label information gcloud projects describe my-project
#View iam policies which user is member of what gcloud projects get-iam-policy my-project

GCP Organization commands

gcloud organizations - create and manage GCP Organizations

#List available organizations for gcloud organizations list #Detail description gcloud organizations describe my-org_id #Show what policies are enable gcloud resource-manager orgpolicies list --organization=my-org-id --show-unset #Show all projects within an Organization (e.g Org_name) by looking at labels gcloud projects list --format=json | jq '.[].labels | select(.organisation =="my_org_name")' | grep projectname | sort -u | wc -l

IAM commands (continue)

#Find specific reviewer role permissions gcloud iam roles describe [role-name] --organization=my-org-id #Search for a specific permission for a given organization gcloud asset search-all-iam-policies --scope=organizations/[organization-id] --query='policy.role.permissions:resourcemanager.projects.setlamPolicy' #Finding keys creation and expiration date/time of a specific iam service account gcloud iam service-accounts keys list --iam-account=[example@iam.gserviceaccount.com]

GCP Bucket commands

gcloud storage - create and manage Cloud Storage buckets and objects

#To list buckets for specific project gsutil Is -p my-project #Prints the object size, creation time stamp, and name of each matching object gsutil Is -I gs://bucket/.htm/ gs://bucket/.txt #Print additional details gsutil Is -L gs://my-project/ #List objects within bucket (--recursive) gcloud storage objects list gs://my-project/ --limit=1 gcloud storage Is --recursive gs://my-project/



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Basic Initialization commands

Initial setup tasks

gcloud init
#To verify existing config
gcloud config list OR gcloud info
#To set Project
gcloud config set project [project-name]
#To remove project
gcloud config unset project
[project-name]

Compute commands

gcloud compute - create and manipulate Compute Engine resources

#To list compute images for particular project gcloud compute images list -project=[project-id] #To list compute instances for particular project gcloud compute instances list -project=[project-id] #Detail description about the instance gcloud compute instances describe my-instance --project-=my-project #View in different formatting gcloud compute instances describe my-instance --project-=my-project --format=flattened

Disk and Snapshots commands

Read and manipulate Compute Engine disks/snapshots

#List disks for a specific project gcloud compute disks list --project=my-project #Read metadata info for a specific disk gcloud compute disks describe my-disk-name --zone=country-southeast1-a --project=my-project #List snapshots for a project gcloud compute snapshots list -project=my-project #Count of snapshots within specific projects gcloud compute snapshots list -project=my-project --format='value(NAME)' | wc -l

Disk and Snapshots commands (continue)

#Create a snapshot of a

persistent disk in zone us-cengcloud compute disks snapshot test --zone=us-central1-a -snapshot-names=snapshot-test --description="Example snapsh-#Create an image from a snapshot gcloud compute images create my-image --source-snapshot=source-snapshot #Export a VMDK file my-image from a project to a Storage bucket gcloud compute images export --image=my-image --destinationuri=gs://my-bucket/my-image.vmdk --export-format=vmdk --project=my-project

Incident Investigation commands

List of useful commands for incident investigation

#List logs available for project gcloud logging logs list --project=my-project
#Logs with matching insertId gcloud logging read insertId="my-InsertId" --project=my-project
Json format with jq filter on source ip gcloud logging read insertId="my-InsertId" --project=my-project --format=json | jq '.[] .protoPayload.requestMetadata.callerIp'

Incident Investigation commands (continue)

#By default search return result for past 1 day #Use freshness to go beyond 1 day --freshness=7d # Finding logs by Principal Email address gcloud logging read "protoPayload.authenticationInfo.principalEmail:'youremail@domain'" -project=my-project --format=json --limit=1 #Finding logs for specific time gcloud logging read 'timestamp>="2023-01-30T18:50:59Z" AND timestamp<="2023-01-31-T00:00:00Z" --project=my-project --format=json

Incident Investigation commands (continue)

#Timestamp Z shows that its in UTC format

#To read logs from specific log source and filter activity matching on time gcloud logging read 'logName=-projects/[my-project]/logs/clo-udaudit.googleapis.com%2Factivity' --project=my-project --format=json | jq '.[] | select(.t-imestamp >= "2023-02-03T00:2-0:18.984704107Z")' | grep

Incident Investigation commands (continue)

#Timestamp Z shows that its in UTC format

#To read logs from specific log source and filter activity
matching on time
gcloud logging read 'logName=projects/[my-project]/logs/cloudaudit.googleapis.com%2Factivity' --project=my-project -format=json | jq '.[] | select(.timestamp >= "2023-02-03T00:20:18.984704107Z")' | grep
callerlp



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