**Migrate Files from shared drive to Google cloud storage using rclone**

Reference Link : <https://rclone.org/googlecloudstorage/>

**Pre-requisite :**

1. rclone installation and setup

2. Access to shared drive

3. IAM access for bucket

4. Google cloud storage access (enable billing)

**Steps :**

**1)Setup for google drive**

1. Install rclone : brew install rclone
2. Check version  : rclone –version
3. Enable rclone configuration file : rclone config

A screenshot of a computer

Description automatically generated

1. Setup connection for google drive :

Enter ‘n’ to create new connection /config

Enter any random name for connection   
From list of storage option select 19 for google drive(it may vary , select appropriate number)  
Keep client ID and client secret as blank (default)

A screenshot of a computer program

Description automatically generated

Select option for scope

A screen shot of a computer program

Description automatically generated

Leave the service account file blank (default) so it can authorize the connection through the interactive GUI.

Enter mail ID and password – complete the authorization process if it is successfully you will see below screen

A screenshot of a computer

Description automatically generated

**2)Setup Google cloud storage :**

1. Enter ‘n’ for new connection

2.Enter any name for config file

3.select appropriate option for google storage

4.Project number optional - needed only for list/create/delete buckets - see your developer console.

Ex:  
Storage> google cloud storage

Google Application Client Id - leave blank normally.

client\_id>

Google Application Client Secret - leave blank normally.

client\_secret>

project\_number> 12345678

5. Leave below field as empty (default)

A screen shot of a computer program

Description automatically generated

6.Select Location – Enter 4 for multi regional US location (check in project settings)

A screen shot of a computer

Description automatically generated

7.Storage class :GCS Standard is default then select 1 in rclone  
  
A screen shot of a computer program

Description automatically generated

8.It will show one window for account authorization enter credentials and u will see this message once it is successful  
  
A screenshot of a computer

Description automatically generated

Below is list of remote with all options :  
A screen shot of a computer

Description automatically generated

**3) Migrate files from drive to Gcs bucket**list files in drive : rclone ls "kentron\_google\_drive:/"

Check below permissions to bucket :

1. Fine graid access is needed
2. Set bucket as public

Command :

gcloud projects add-iam-policy-binding kn-dev-01 \

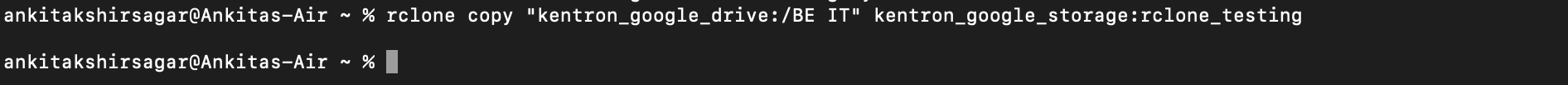
--member="serviceAccount:1023287738896-compute@developer.gserviceaccount.com" \

--role="roles/storage.objectAdmin" \

--condition="expression=request.time < timestamp('2024-04-12T20:18:11.470Z'),title=cloudbuild-connection-setup"

1. Use below copy command :

rclone copy "kentron\_google\_drive:/BE IT" kentron\_google\_storage:rclone\_testing

****

Option to see time : -v

**A screenshot of a computer

Description automatically generated**OUTPUT : files in gcs bucket

**A screenshot of a computer

Description automatically generated**