

修訂紀錄:

版次	日期	變更內容	變更者
0.1	2019/01/10	- 初版	李奎模
1.0	2019/01/15	- 修改用字、改為網頁排版	魏嘉玟



使用 Rclone 串接雲端空間

台灣杉一號安裝了 Rclone,提供操控雲端空間的指令,可以在 CLI (command-line interface)的環境上傳/下載雲端空間的檔案。可串接的雲端空間包含了 Google Drive、Microsoft OneDrive、Dropbox 等服務,詳細支援請參考官網。

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以下說明 Rclone 遠端連線至雲端空間,以 Google Drive 為例,分為二部分:

- 1. Rclone 遠端連線至 Google Drive
- 2. Rclone 基本指令操作範例

1. Rclone 遠端連線至 Google Drive

Step 1. 參考台灣杉 1 號使用手冊,以 SSH 連線至主機

Step 2. 載入 Rclone,指令列請輸入:

module load rclone/1.45

Step 3. 顯示 Rclone 的說明,確定載入成功與否

rclone -help 或 man rclone

Step 4. 設定遠端連線至 Google Drive:下完以下指令,會出現一連串互動式問答設定,依 序填入即新增完成



rclone config

互動式填入資訊範例:

```
No remotes found - make a new one
n) New remote
s) Set configuration password
q) Quit config
n/s/q> n (選 n 新增雲端空間)
name> google drive test (命名 google drive test)
Type of storage to configure.
Enter a string value. Press Enter for the default ("").
Choose a number from below, or type in your own value
1 / A stackable unification remote, which can appear to merge the
contents of several remotes
   \ "union"
2 / Alias for a existing remote
   \ "alias"
 3 / Amazon Drive
   \ "amazon cloud drive"
4 / Amazon S3 Compliant Storage Providers (AWS, Ceph, Dreamhost, IBM
COS, Minio)
   \ "s3"
 5 / Backblaze B2
   \ "b2"
 6 / Box
   \ "box"
 7 / Cache a remote
   \ "cache"
 8 / Dropbox
   \ "dropbox"
 9 / Encrypt/Decrypt a remote
   \ "crypt"
10 / FTP Connection
   \ "ftp"
11 / Google Cloud Storage (this is not Google Drive)
   \ "google cloud storage"
12 / Google Drive
   \ "drive"
13 / Hubic
   \ "hubic"
14 / JottaCloud
```



```
\ "jottacloud"
15 / Local Disk
  \ "local"
16 / Mega
   \ "mega"
17 / Microsoft Azure Blob Storage
   \ "azureblob"
18 / Microsoft OneDrive
   \ "onedrive"
19 / OpenDrive
  \ "opendrive"
20 / Openstack Swift (Rackspace Cloud Files, Memset Memstore, OVH)
   \ "swift"
21 / Pcloud
   \ "pcloud"
22 / QingCloud Object Storage
  \ "qingstor"
23 / SSH/SFTP Connection
   \ "sftp"
24 / Webdav
   \ "webday"
25 / Yandex Disk
   \ "yandex"
26 / http Connection
  \ "http"
Storage> 12 (打入 Google Drive 對應序號 12)
** See help for drive backend at: https://rclone.org/drive/ **
Google Application Client Id
Leave blank normally.
Enter a string value. Press Enter for the default ("").
client_id> (通常直接按 enter 不需填入,參考備註①)
Google Application Client Secret
Leave blank normally.
Enter a string value. Press Enter for the default ("").
client_secret> (通常直接按 enter 不需填入,参考備註①)
Scope that rclone should use when requesting access from drive.
Enter a string value. Press Enter for the default ("").
Choose a number from below, or type in your own value
1 / Full access all files, excluding Application Data Folder.
   \ "drive"
 2 / Read-only access to file metadata and file contents.
   \ "drive.readonly"
   / Access to files created by rclone only.
 3 | These are visible in the drive website.
    File authorization is revoked when the user deauthorizes the app.
   \ "drive.file"
```

```
/ Allows read and write access to the Application Data folder.
4 | This is not visible in the drive website.
  \ "drive.appfolder"
   / Allows read-only access to file metadata but
5 | does not allow any access to read or download file content.
   \ "drive.metadata.readonly"
scope> 1 (選 1 獲取全部權限)
ID of the root folder
Leave blank normally.
Fill in to access "Computers" folders. (see docs).
Enter a string value. Press Enter for the default ("").
root folder id> (直接按 enter 不需填入)
Service Account Credentials JSON file path
Leave blank normally.
Needed only if you want use SA instead of interactive login.
Enter a string value. Press Enter for the default ("").
service_account_file> (直接按 enter 不需填入)
Edit advanced config? (y/n)
y) Yes
n) No
y/n> n (選 n 不需要進階設定)
Remote config
Use auto config?
 * Say Y if not sure
* Say N if you are working on a remote or headless machine or Y didn't
work
y) Yes
n) No
y/n> n (選 n,複製底下網址貼到自己電腦的瀏覽器,瀏覽器畫面如備註②)
If your browser doesn't open automatically go to the following link:
https://accounts.google.com/o/oauth2/auth?access type=offline&...
Log in and authorize rclone for access
(上步驟同意 Rclone 權限後,網頁會出現一組亂碼,此時複製貼到底下,瀏覽器畫面如
備註③)
Enter verification code> 4/zgDS6-2P49oRpkvWx...
Configure this as a team drive?
y) Yes
n) No
y/n> n (選 n,通常沒有用 team drive)
[google drive test]
type = drive
scope = drive
token =
{"access_token":"XXX","token_type":"Bearer","refresh_token":"XXX","expiry
 "2019-01-10T11:42:22.453656282+08:00"}
```

2. Rclone 基本操作指令範例

1. 列出雲端空間裡的資料夾:

```
rclone lsd google_drive_test:
```

2. 列出雲端空間的資料夾 remote folder 內,所有檔案:

```
rclone ls google_drive_test:remote_folder
```

3. 複製本機檔案 test.jpg, 到雲端資料夾 remote folder 內:

```
rclone copy ~/local_folder/test.jpg google_drive_test:remote_folder
```

4. 複製雲端空間檔案 test.jpg 到本機資料夾 local folder 內:

```
rclone copy google_drive_test:remote_folder/test.jpg ~/local folder
```

5. 同步本機檔案 test.jpg 到雲端空間 remote folder 資料夾:

```
rclone sync ~/local_folder/test.jpg google_drive_test:remote_folder
```

6. 同步雲端空間資料夾 remote folder 到本機,本機資料夾名稱命名 local folder:

```
rclone sync google_drive_test:remote_folder ~/local_folder
```



7. 同步雲端空間資料夾 remote_folder 到本機,本機資料夾名稱命名 local_folder,並一次傳輸 10 個檔案(--transfers=10),並顯示詳細資訊(-vv):

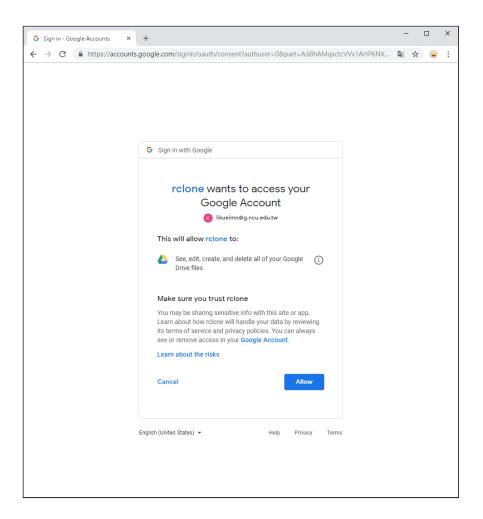
rclone sync -vv --transfers=10 google_drive_test:remote_folder
~/local_folder

其他進階操作可以參考 Rclone 官網文件 https://rclone.org/docs/

備註:

- ① 若要增加 Google Drive 上傳/下載速度,可以設定自己 Google client ID,詳情可以參考官網, Making your own client id 部分
- ② 複製網址貼到瀏覽器上, Rclone 將要求權限讀取你的 Google Drive, 請按同意







③ 同意後出現一組亂碼,再複製貼回 Rclone 互動式問答下

