

How to use drive tool to pull/push from/to google drive automatically

I install drive using conda but you can use whatever you like:

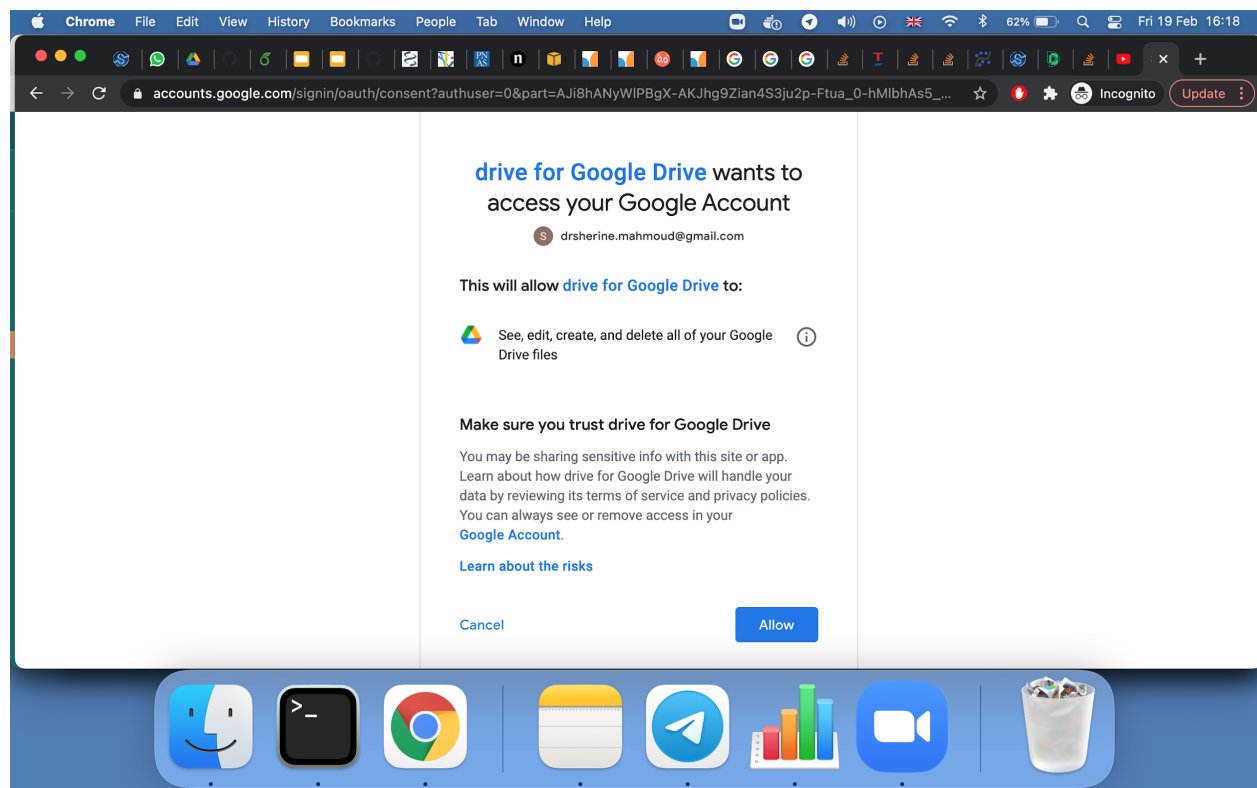
```
conda install -c bioconda drive
```

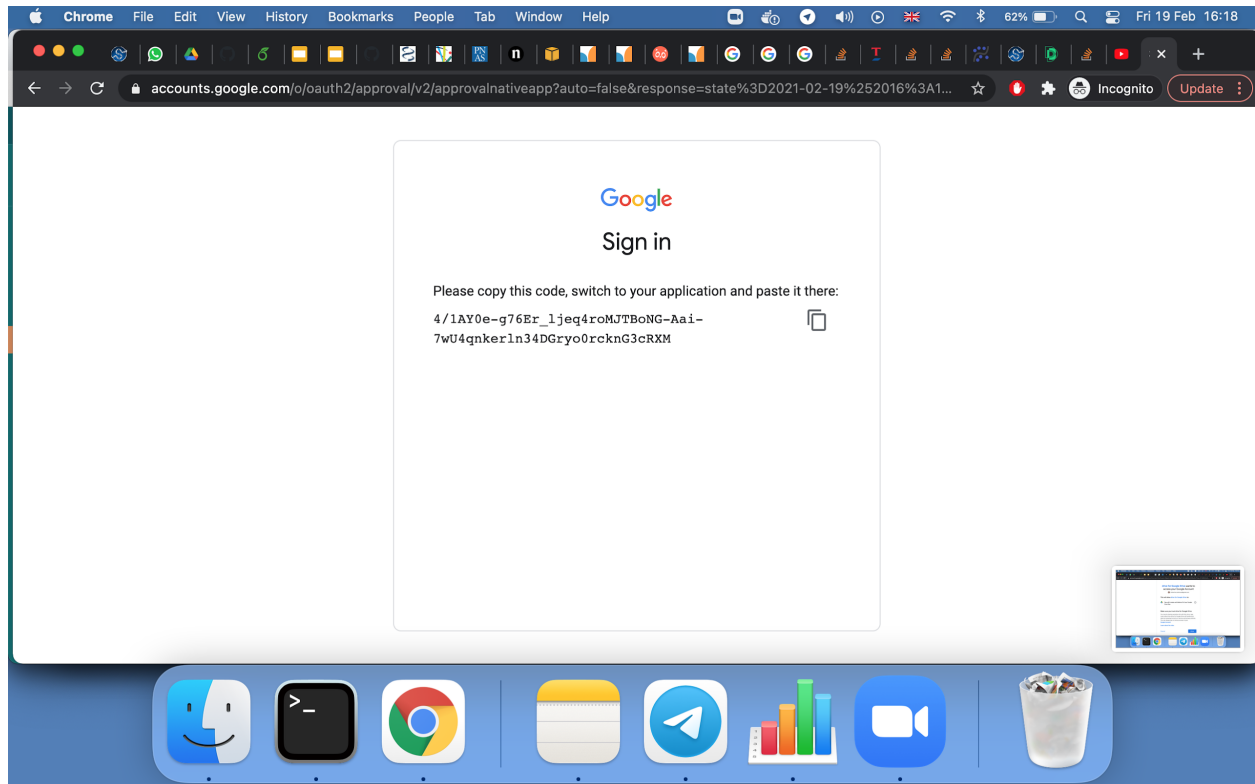
Then in my shell I type: **drive init** to authenticate drive to access my google drive

```
(py37) [ec2-user@ip-172-31-43-252 WES]$ drive init
Visit this URL to get an authorization code
https://accounts.google.com/o/oauth2/auth?access_type=offline&client_id=354790962074-7rrlnuanmamgg114feed12dpuq871bvd.apps.googleusercontent.com&redirect_ur
%3A2.0%3Aoob&response_type=code&scope=https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fdrive&state=2021-02-19+16%3A17%3A24.507882397+%2B0000+UTC2596996162
Paste the authorization code: █
```

It will ask you to paste this code in your browser where you will open your google drive

Once you do you will get something like the image below, you will be asked to allow drive to access your google drive.





Once you click allow, you will see the screen above with a code: You need to copy the code above in the screen and paste again in your shell

You now authenticated drive to access your google drive.

Let's use it

drive list will list the drives in your google drive

```
(py37) [ec2-user@ip-172-31-43-252 WES]$ drive init
Visit this URL to get an authorization code
https://accounts.google.com/o/oauth2/auth?access_type=offline&client_id=354790962074-7rrlnuanmamgg1i4feed12dpuq871bvd.apps.googleusercontent.com&redirect_uri=urn%3Aietf%3Awww%3Aoauth%3A2.0%3Aapp%3Aweb&response_type=code&scope=https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fdrive&state=2021-02-19+16%3A17%3A24.507882397+%2B0000+UTC259696162
(Paste the authorization code: 4/1AY0e-g76Er_ljeq4roMjTBoNG-Aai-7wU4qnkerln34DGryo0rcknG3cRXM
(py37) [ec2-user@ip-172-31-43-252 WES]$ drive list
/Florian_newcode
/Ribofilio16Feb2021
/Florian
/Contacts
/Getting started
(py37) [ec2-user@ip-172-31-43-252 WES]$
```

We can see Florian, Contacts and other folders

Then to push some data:

drive push -destination /Florian_newcode/Rdp0qd0Pdp0qd0/ -files out_SLX*.txt

It will push all my out_SLX*.txt files to this place **Florian_newcode/Rdp0qd0Pdp0qd0** on my google drive

You can see it's proceeding below, that can be any multiple big files, I use text as a quick example.

```
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0003.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0004.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0005.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0006.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0007.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0008.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0009.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0010.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0011.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0012.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0037.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0038.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0039.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0040.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0065.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0066.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0067.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0068.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0097.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0098.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0099.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0100.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0125.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0126.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0127.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0128.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0149.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0150.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0151.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0152.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0169.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0170.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0171.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0172.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0189.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0190.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0191.HT3G5DMXX.s_2.txt
+ /Florian_newcode/Rdp0qd0Pdp0qd0/out_SLX-18968.UDP0192.HT3G5DMXX.s_2.txt
Addition count 40 src: 399.31KB
Proceed with the changes? [Y/n]:Y
167334 / 408894 [=====]>
```

We can use pull command similarly to pull from google drive

drive -h has a punch of other good stuff

```
(py37) [ec2-user@ip-172-31-43-252 WES]$ drive -h
Name      about - print out information about your Google drive

Name      copy - copy remote paths to a destination

Name      cp - copy remote paths to a destination

Name      del - deletes the items permanently. This operation is irreversible

Name      delete - deletes the items permanently. This operation is irreversible

Name      diff - compares local files with their remote equivalent
Description
    Accepts multiple remote paths for line by line comparison
    Note: You can skip checksum verification by passing in flag `--ignore-checksum`
* For usage flags: `drive diff -h`

Name      edit-desc - edit the attributes of a file
Description
    Accepts multiple remote paths as well as ids
* For usage flags: `drive edit-desc -h`

Name      emptytrash - permanently cleans out your trash

Name      features - returns information about the features of your drive

Name      init - initializes a directory and authenticates user
Description
    Requests for access to your Google Drive
    Creating a folder that contains your credentials
    Note: `init` in an already initialized drive will erase the old credentials
* For usage flags: `drive init -h`

Name      list - lists the contents of remote path
Description
    List the information of a remote path not necessarily present locally
    Allows printing of long options and by default does minimal printing
* For usage flags: `drive list -h`

Name      ls - lists the contents of remote path
```