**Google Drive API with HydroShare Python – Part I**

Adapted from : <https://medium.com/swlh/google-drive-api-with-python-part-i-set-up-credentials-1f729cb0372b>

NOTE: In several steps, a new page (no tab nor webpage) is shown after an action (click).

1. Go to https://console.developers.google.com/ from your browser and either create or login to an account here. You can use a Gmail or any other account. Also, you can use the same of a different email address than the one being used in Google EarthEngine.
2. Click on “MyProject” or “MyFirstProject” next to the “GoogleAPI” symbol on top left of the page.
3. On new windows, click “New Project” (top right)
4. On new page, enter new name, e.g. “hydroshare-googledrive”. Leave the no organization option as is. Click CREATE button.
5. Click on “+ENABLE APIS AND SERVICES” (IN BLUE) at the top center on the page. In new page “WELCOME to the API LIBRARY” search for Google Drive (typically located in the third row of icons) and click on it.
6. In new page, “Google Drive API”, click on the “ENABLE” blue icon. New page is shown. Click on “CREATE CREDENTIALS” (blue text) icon on the top left.
7. In new page, select the following options:
8. Which API are you using? Google Drive API
9. Where will you be calling the API from: Webbrowser (Javascript)
10. What data will you be accessing: User data
11. Click on icon “What Credentials do I need?”. In pop-up “Set up OAuth consent screen”, click on “SET UP CONSENT SCREEN”.
12. On “OAuth consent screen” page, select “Internal” User type. Click CREATE.
13. On page, enter the follow information: “Application name” (a name related to Hydroshare will be good). Click on “Add scope”.
14. In new window select “See and download all your Google Drive files” Click ADD. Scroll down and click SAVE.

Note: if in “Add Scope” new window the “See and download all your Google Drive files” is not available, click on the link in this message at the bottom: “Cannot find a scope? Only scopes for enabled APIs are listed above. To add a missing scope please visit the [Google API Library](https://console.developers.google.com/apis/library?project=calm-history-278318)to find and enable the API you would like to use before returning to add scopes, or manually paste your scopes.”

This link will open a new tab with the API Library in display and the project name (e.g. hydroshare-googledrive” in top left. Click on the Google Drive icon and in the new page, click on “ENABLE. Go back to the previous tab, scroll down on the “OAuth consent screen”, click “Cancel” and you are back to Step 12.

1. The page should show the name of the “OAuth consent screen and a message that says “needs verification. Ignore it.
2. On the left, click on the “Credentials” icon. On the new page, click on the “+Create Credentials” blue text icon. Select “OAuth client ID”. In the new page, select “Web application” as the Application type, and in “Name”, you can leave it as it or change it to something related to this project. Click “CREATE” at the end of the page. A pop up window will show some code. Click OK.
3. In the webpage, under OAuth 2.0 Clients ID there a line with the “Name” of the previous step. In this line there will be the files to download. But first, click the “Name”, click the “Authorized redirect URIs” and add this address: <http://localhost:8080/oauth2callback>. Click SAVE.
4. Back in the previous page, click the Down arrow and in the “Save As” window enter   
   “client\_secret.json”

End of Part I. Google Drive API has been configured.