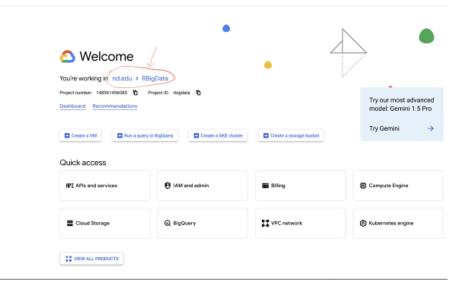


Use Google Cloud

Enable the API

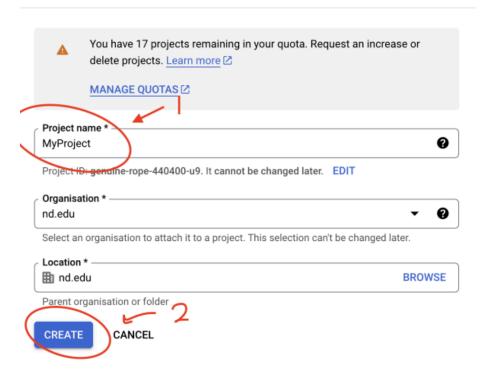
To use Google Cloud, we need to set up the API services. Here is a brief tutorial on how to do it based on enabling and using the Google Cloud Vision.

 $1.\ To\ start, to\ to\ Google\ Cloud\ console\ at\ \underline{https://console.cloud.google.com/\ [https://console.cloud.google.com/\]}$

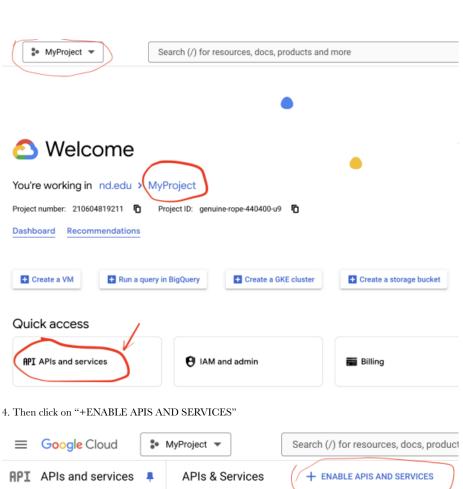


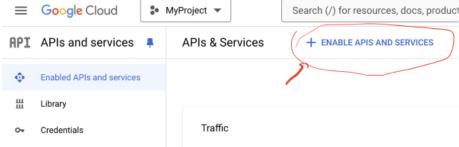
2. Click on nd.edu > first project or sth else there and in the popup window to create a new project.

New Project

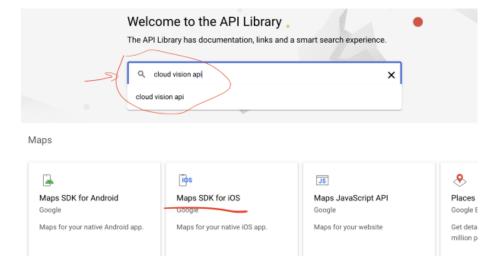


3. Select the newly created project and then click on "API and Services"





5. Select or search for "Cloud Vision API" and enable it.







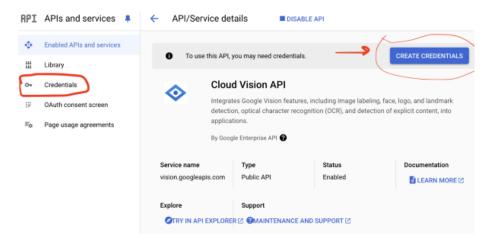
Cloud Vision API

Google Enterprise API

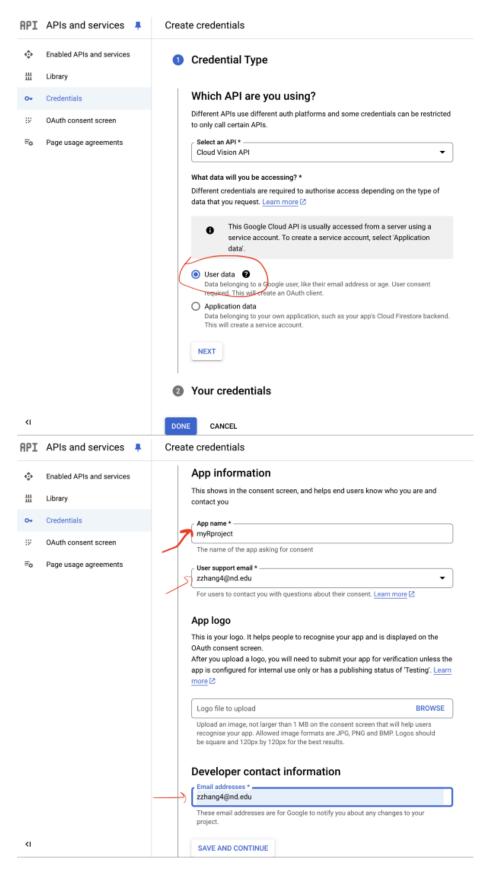
Image Content Analysis



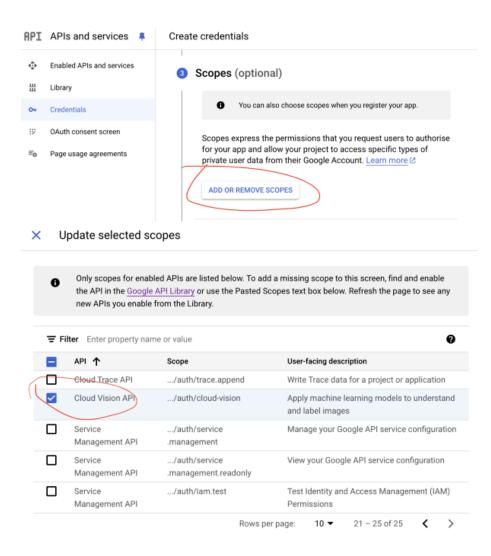
6. Click on "Create credentials"



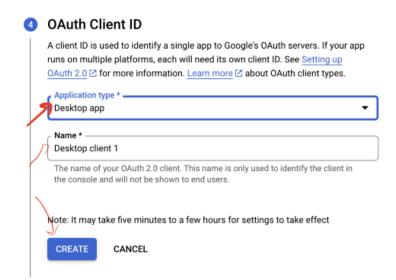
7. Now create the credentials following each step.



One can specify the scope of the APIs. Here we choose Cloud Vision.



Now create the client ID



After it, you can download the ID as a JSON file.

Your credentials

Download your credentials

Download this credential information in JSON format. This is always available for you on the credentials page .



Your OAuth consent screen has been configured and is ready for use by others in your Google Workspace organization.

If you need users outside of your organization to have access, you can change the app type to "External" on the <u>OAuth consent screen page</u>. Most external apps also require <u>verification</u> [2], which can take up to 4-6 weeks (depending on which OAuth scopes your app uses).

Click on "Done" to complete it.

Authenticate within R

We now use the R package googleAuthR to authenticate to Google.

1. Load the library (you may need to install it first using install.packages('googleAuthR') 2. Specify the scopes to use 3. Set the client ID using gar_set_client. file.choose() allows you to choose the JSON file you saved earlier. 4. Then for the use of the first time, use gar_auth to authenticate.

library(googleAuthR)

Use the Cloud Vision service

```
library(googleCloudVisionR)
API.call <- gcv_get_image_annotations(imagePaths = "calm1.png", feature="FACE_DETECTION")
API.call</pre>
```

classes/rdatascience/use_google_cloud.txt · Last modified: 2025/01/04 20:10 by johnny