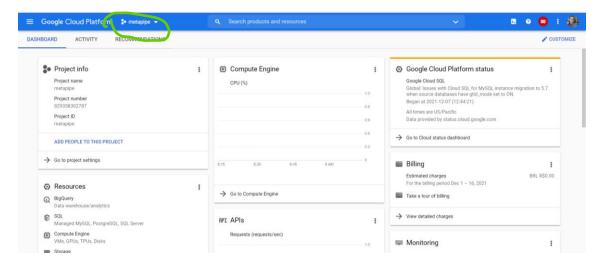
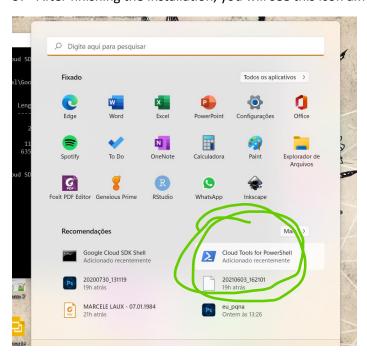
HOW TO TRANSFER FILES BETWEEN YOUR COMPUTER AND GCP

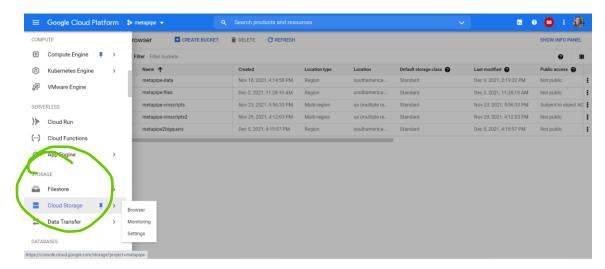
- 1. Install GCP. Go to this page: https://cloud.google.com/storage/docs/gsutil_install
- 2. Scroll down a little bit, until you see "Installing gsutil as part of the Cloud SDK"
- 3. For Windows users, click on "Download the Cloud SDK installer."
- 4. After the download is complete, follow the installer instructions.
- 5. After clicking on "Next", a prompt will open, asking you if you would like to sign in, then you type "Y"
- 6. Sign in with the google account you are using to run GCP
- 7. Then, in the prompt, it asks you which project to use. The project is found in your GCP console:



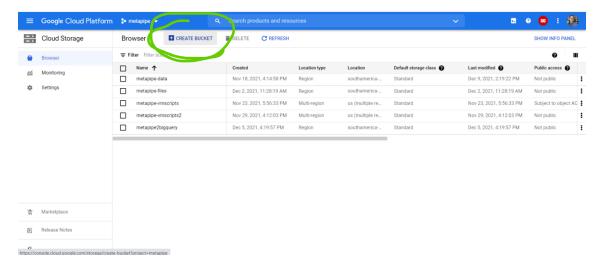
- 8. In the prompt, it will also ask for the geographic region, you can type "Y" to select your region, or "n" to use any server available.
- 9. After finishing the installation, you will see this icon among your installed programs:



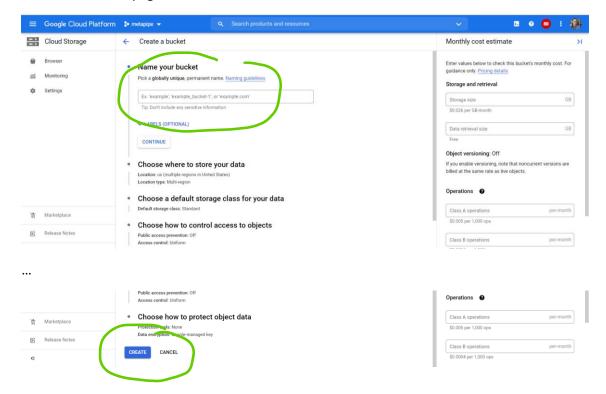
- 10. You can close the prompt, and then click on this "Cloud Tools for powerShell"
- 11. A new prompt will open, pointing to the "Cloud Tools for powerShell" installation folder
- 12. Using linux commands, go to the folder where you have your files to upload.
 - a. Type cd ../../../ to get to your user folder
 - b. Type Is
 - c. Type cd to enter in your desired folder
- 13. Begore we type the command to upload a file to GCP, we have to create a "bucket", which is the name used by GCP to call your data storage folder. Go back to GCP console, and in the hamburguer menu at top left, scroll down until you see "Storage", then click on ti:



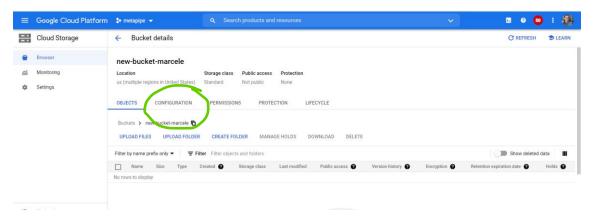
14. Then, in the top options, click on "CREATE BUCKET":



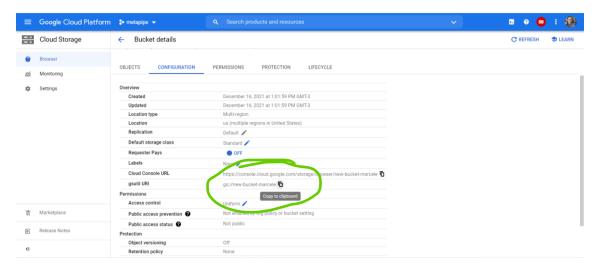
15. A new page will appear, just type a name for your bucket and click on "CREATE" at the bottom of the page:



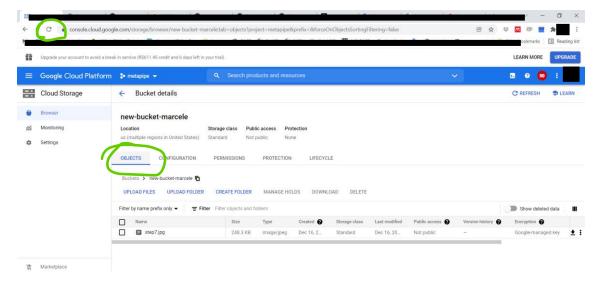
16. This new page will appear, showing your newly created bucket. Click on "Configuration":



17. Here is the address to upload or download data to or from the bucket:



- 18. Now you go back to your prompt, where you are at your folder with the files you'd like to upload, and type the following command: gsutil cp file_to_upload.fastq gs://new-bucket-name
- 19. Go back to your bucket page, click on "OBJECTS" and type refresh page in your browser:



- 20. Now your file is there. To download it to your machine, type the following: gsutil -m cp gs://new-bucket-name/file_to_download.txt .
- 21. To load your uploaded file into tour Jupyter Notebook VM (virtual machine), type the following in a new cell:

!gsutil cp gs://new-bucket-name/ file_to_work.fastq .

Do not forget the ' ! ' exclamation point before the command in the Jupyter Notebook cell.

- 22. To save a file from your Notebook to your bucket, in order to download it to your computer, type:
- 23. !gsutil cp file_to_save.fastq gs://new-bucket-name/

That's it, you are ready to upload and run your data 😊

