

Oct 20, 2021

# Terra Registration - Linking GCP Credits to the Terra Platform

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protocol .

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This Terra registration protocol provides step-by-step guidance to register and activate a Google account as well enable Google Cloud free credits (\$300) to use with the Terra platform. Terra runs using the Google Cloud Platform (GCP) as a backend for analysis and data storage. Compute costs are routed through the linked Google account. This is why you must link your Terra billing project to the Google Cloud Platform.

The registration process includes two parts, activating the GCP and linking the Google credits to the Terra platform. Upon creating the Terra account, GCP will be activated. This will allow your billing project on Terra to be connected to the Google cloud credits in order to run the desired analysis in Terra workspace.

<https://support.terra.bio/hc/en-us/articles/360034677651-Account-setup-and-exploring-Terra>

For technical assistance, please contact: **TOAST@cdc.gov**

Anusha Ginni, Jill V Hagey, Technical Outreach and Assistance for States Team  
2021. Terra Registration - Linking GCP Credits to the Terra Platform.

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<https://protocols.io/view/terra-registration-linking-gcp-credits-to-the-terr-bv3jn8kn>



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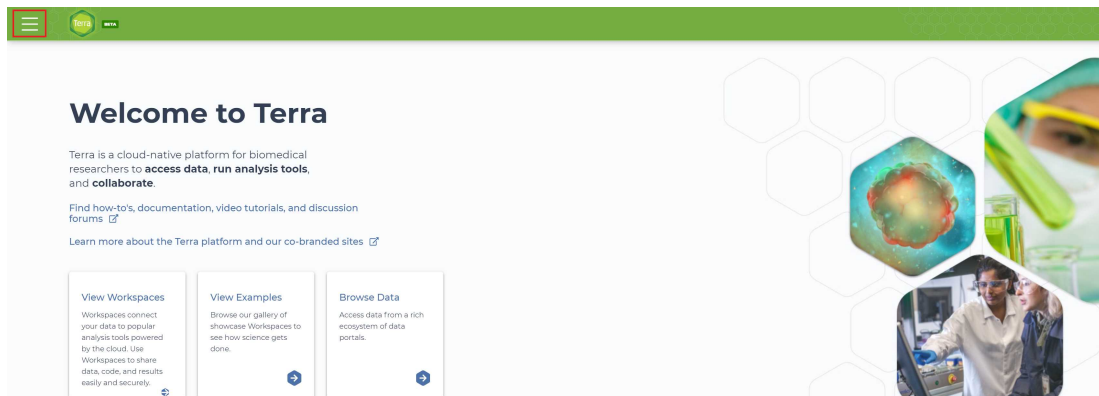
## Setup Terra and Google Cloud Accounts

- 1 To set up and link google account to Terra follow the instructions from the links below.

**For detailed step-by-step instructions scroll down to Step 2.**

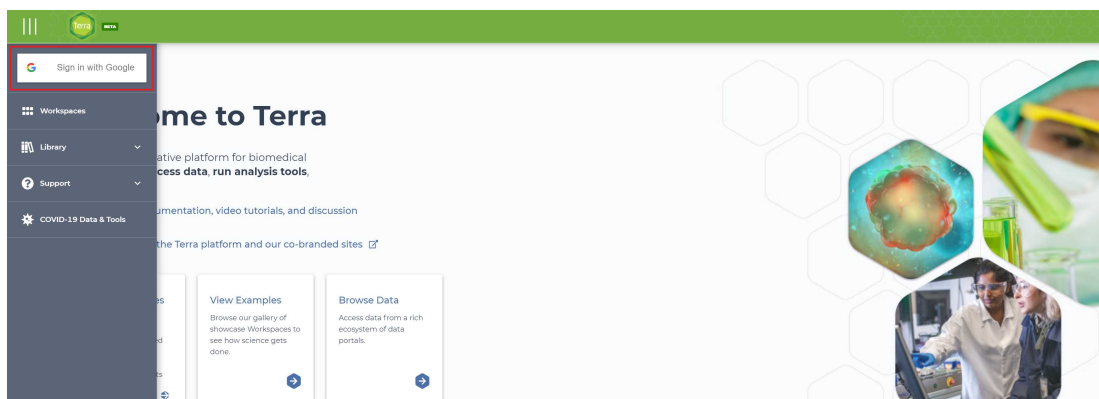
The Terra platform registration requires a Google account. If you have a Google account you can sign in using the Terra login page:

<https://app.terra.bio/>



Welcome page for Terra.bio

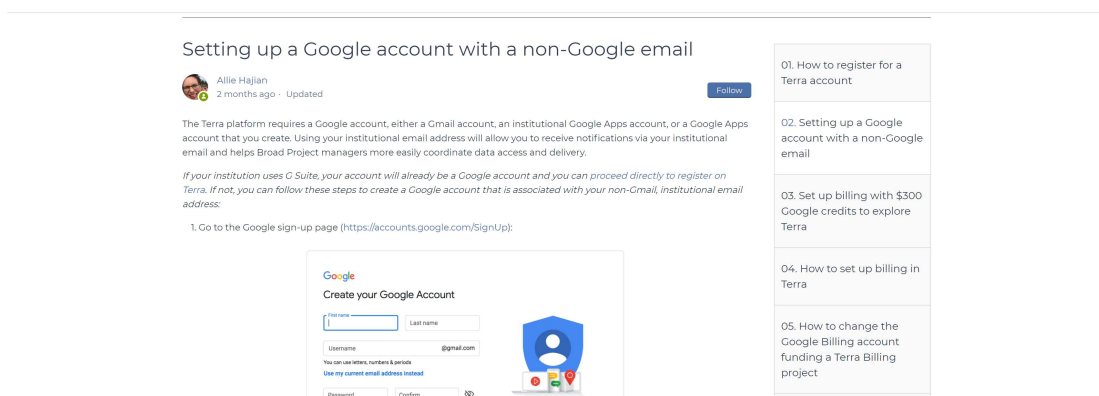
Click on the three parallel lines in the top left-hand corner and click the 'Sign in with Google' button.



Terra.bio welcome page with selection panel open.

If you do not have Google email you can set up a Google account with a non-Google email. The steps to do this are described in the following link:

<https://support.terra.bio/hc/en-us/articles/360029186611>



The Terra platform uses Google Cloud to run workflows and store data. The following documentation will describe how to set up a Google Cloud account:

<https://support.terra.bio/hc/en-us/articles/360046295092>

Terra Support > Documentation > Account and billing setup & admin (including security)

## Set up billing with \$300 Google credits to explore Terra

 Ailie Hajian  
11 days ago · Updated

Follow

*If you've never logged into the Google Cloud Platform console to set up billing, you are eligible for \$300 in free GCP credits you can use for working in Terra. Read on for step-by-step instructions for how to access the credits in Terra and FAQs about using the credits on Terra.*

*For more information about Google's free credits and Free Tier, see their documentation here.*

### Contents

Three steps to get \$300 GCP credits to use in Terra

1. Set up a GCP Billing account and accept \$300 free trial credits
2. Link Terra to your GCP Billing account
3. Create a Terra Billing project

Next - Try a template analysis  
GCP free credits FAQs

### Three steps to get \$300 GCP credits to use in Terra

The first step is to set up a GCP Billing account using your Terra user ID in the GCP console. Note that you will need to give some additional information to Google, as well as verify your Billing account with a credit card or bank account. Google will

01. How to register for a Terra account
02. Setting up a Google account with a non-Google email
03. Set up billing with \$300 Google credits to explore Terra
04. How to set up billing in Terra
05. How to change the Google Billing account funding a Terra Billing project

To link your Terra platform account with your Google Cloud account follow the instructions provided in the following link:

<https://support.terra.bio/hc/en-us/articles/360026182251-How-to-set-up-billing-in-Terra>

Scroll down to Section 3 titled "Create a Terra Billing Project" and follow the instructions. **It is important to note that the name you give to your Terra Billing Project must be unique across all Google Billing Projects.** If the name provided is not unique, it won't immediately throw an error, but instead will not complete the process of associating the Google Billing account with the Terra Billing Project. If this occurs cancel the process and set up a new Terra Billing Project.

Terra Support > Documentation > Account and billing setup & admin (including security)

## How to set up billing in Terra

 Anton Kovalsky  
2 months ago · Updated

Follow

*Terra runs on the Google Cloud Platform (GCP), so you'll pay for all storage and analysis costs through a Google account linked to Terra. Once you set up your billing structure, Terra takes care of interfacing with the Google billing account. This article goes over step-by-step instructions for how to set up billing in Terra for different scenarios. To learn more about the structure of billing in Terra, including what costs money to do and who pays for costs, see this article.*

*There is never a charge for administration or security services covered by the Terra platform or for support, and the community forum is available 24/7 free of charge to help you. The costs are the standard GCP fees for storing and moving data as well as executing an analysis (bulk workflow or interactive Jupyter notebook). Billing account owners can check your spend at any time on the Google Cloud Platform billing console.*

### Contents

Getting started - \$300 in Google Cloud Credits  
Accessing STRIDES credits on Terra  
Collaborating with someone already on Terra? Some ways to share billing

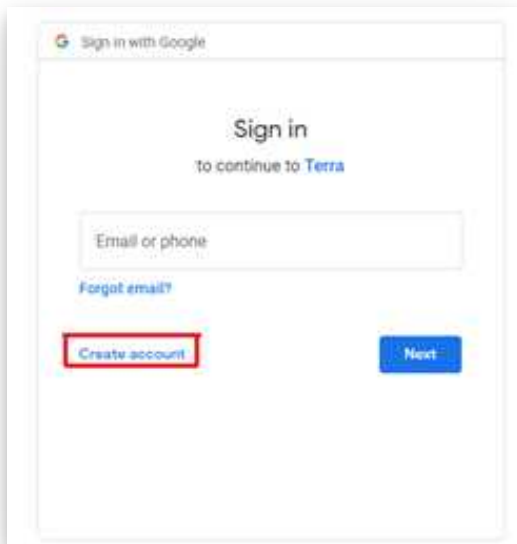
- Work in a shared workspace
- Access an existing Billing Project
- How to add or remove Billing Project users (owners)

01. How to register for a Terra account
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05. How to change the Google Billing account funding a Terra Billing project

## 2 Setting up the Google Cloud Platform (GCP) free credits to use in Terra

If you already have a google account, login using that. If not follow the instructions to create new a account.

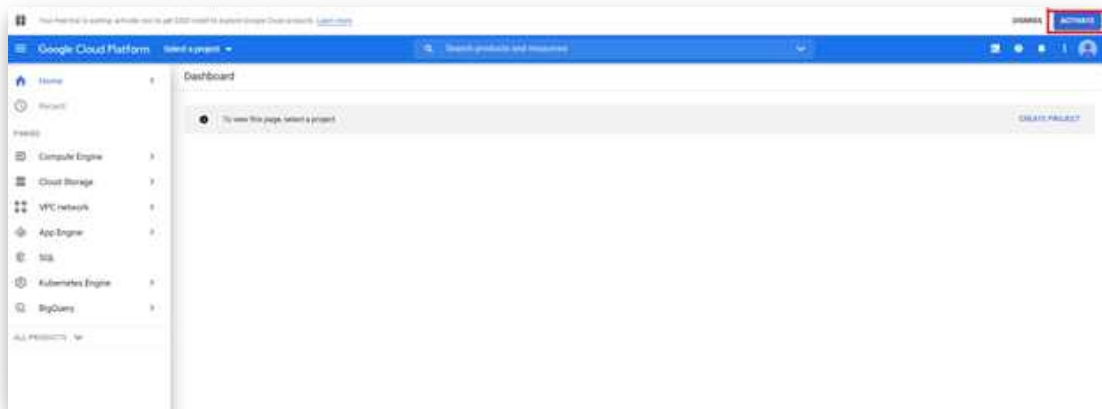
**Note:** If you want to use your work/organization email, you can definitely set up your account using that.



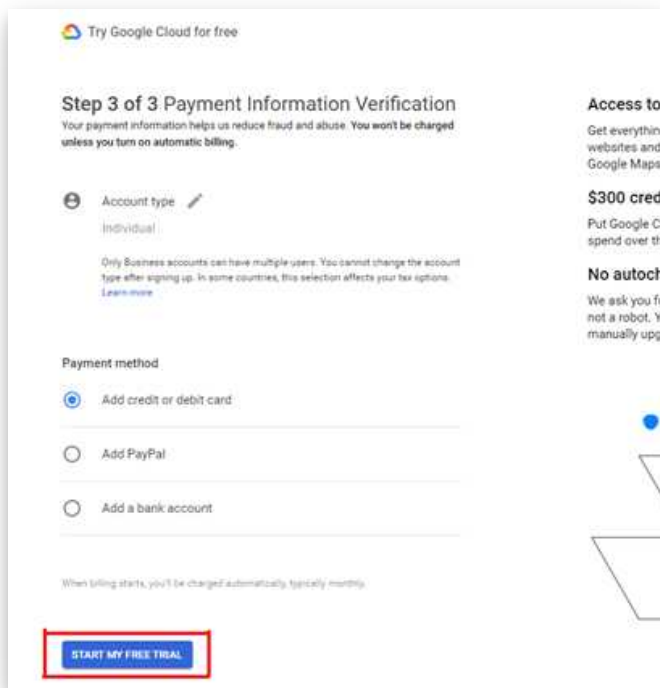
Once you create your google account, you will be redirected to the Terra registration page, click "Register" and it will then land you on the Terra welcome page.



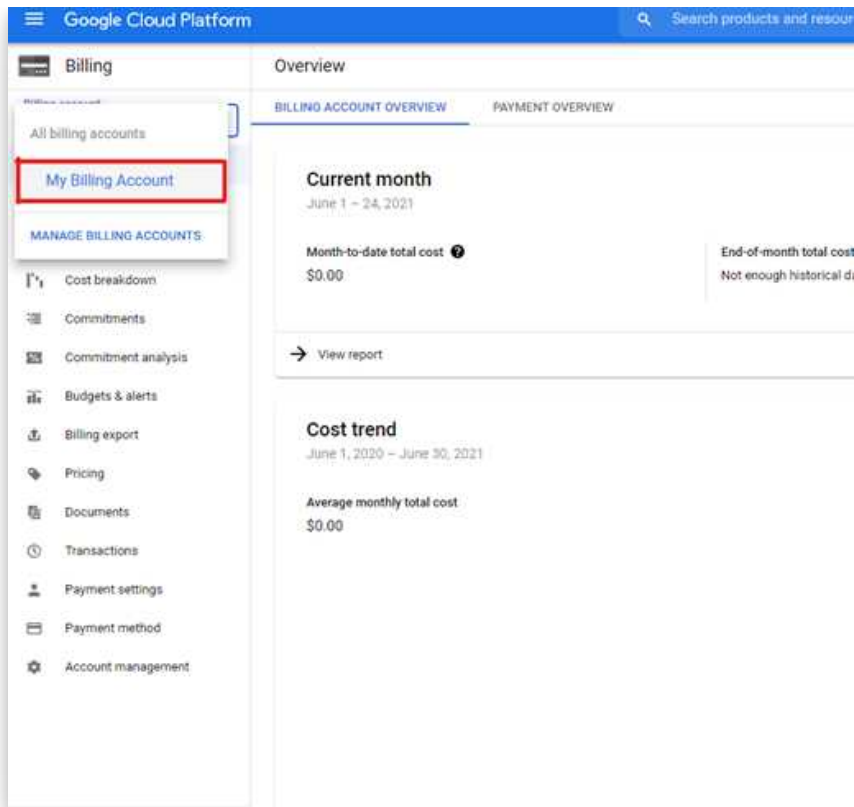
Now you need to activate the Google Cloud Platform (GCP) to add credits to your Terra account, to do this go to google console here: <https://console.cloud.google.com/> make sure you log in with the Terra user id that you just created, that will land you here, go ahead and click “Activate” (see on right corner of the page)



You will be asked to Accept the Terms and Payment Information Verification, where you will provide the account type as “Individual”/”Business” and payment Method. **You won’t be charged until you enable autopayment after free credits.**



Then you will be directed to the google cloud platform home page. You can check the status of this activation, from the left side menu by select Billing and “My Billing Account”. (you can use link to reach directly to billing page, <https://console.cloud.google.com/billing>)

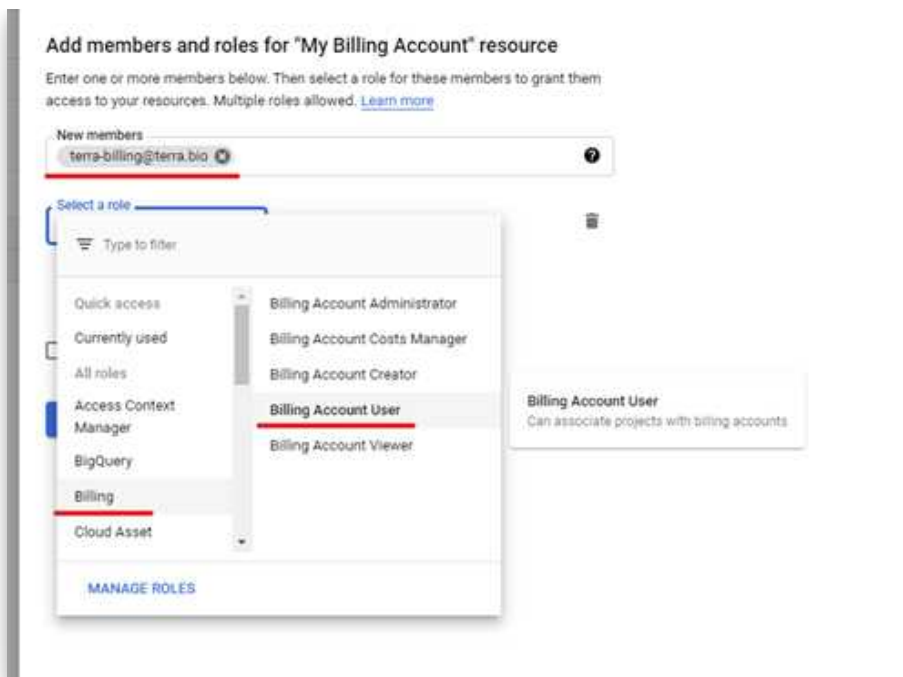


On the "My Billing Account" Page you will see your status as "Active".

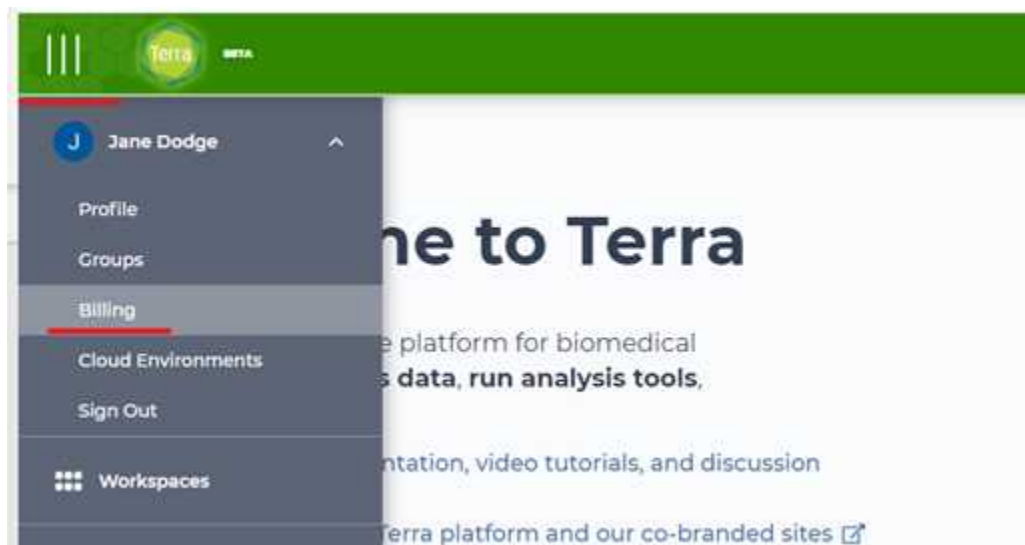


Now let's link your billing account (Terra in this case) on GCP console. On the same page select My Billing Accounts and check the box "My billing Project" which enables to "ADD MEMBER" (you will see this on right side of the page).

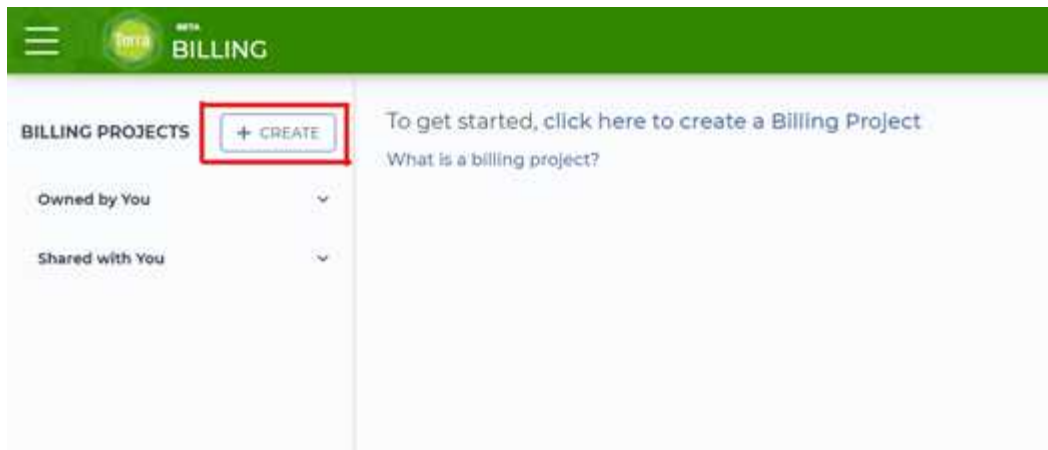
Add [terra-billing@terra.bio](mailto:terra-billing@terra.bio) to grant access to the billing account and set the role as "Billing Account User" from the drop down menu. **\*Don't forget to save the changes\***



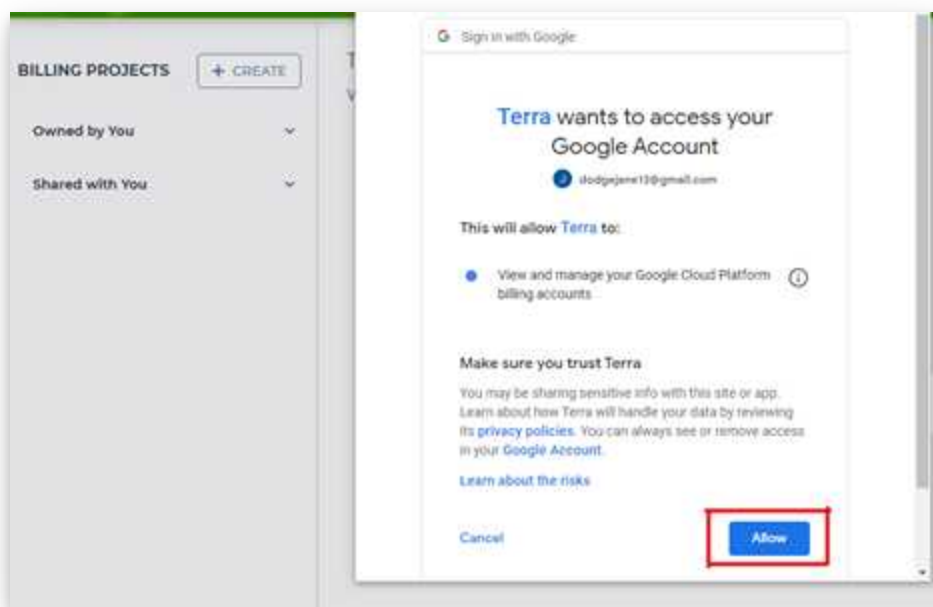
Once you added the credits and linked your GCP billing account, you will now be able to create billing project in Terra and start using the credits. Get back to Terra platform, select "Billing" from the left sidebar to create Projects



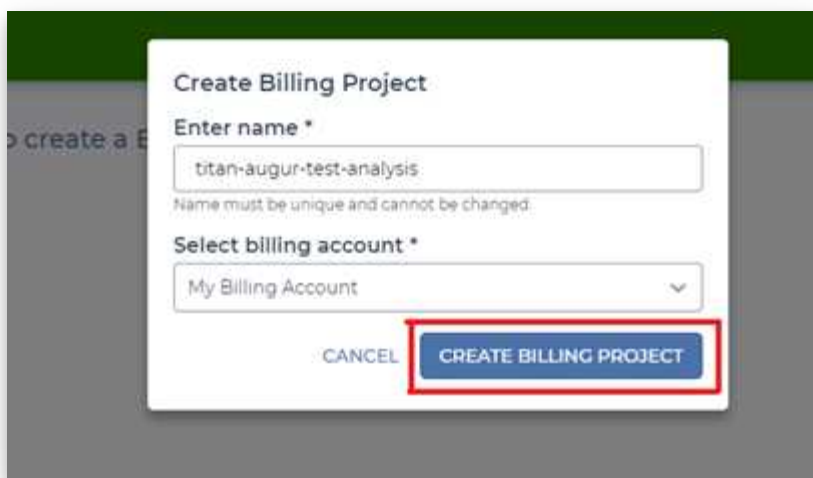




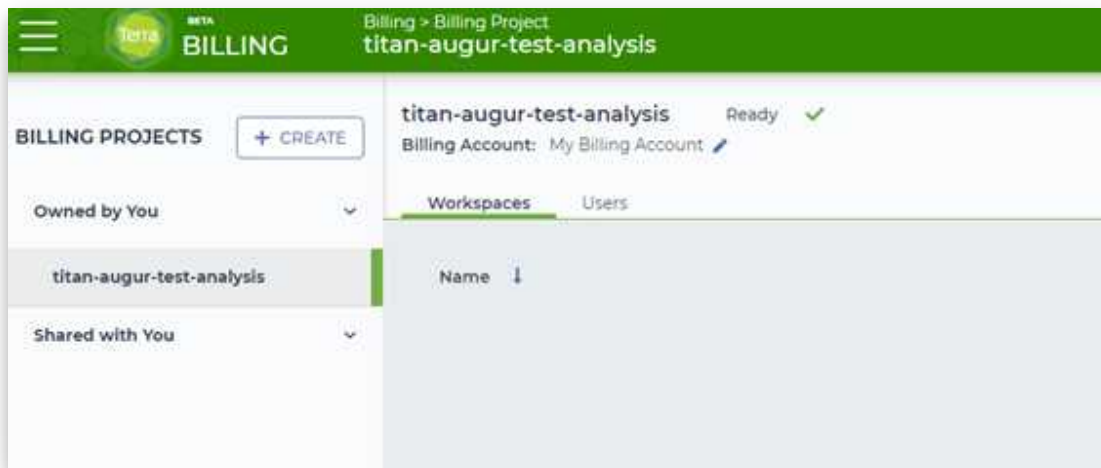
This will redirect to the google account, allow access to Terra



Enter the name of your project and select billing account (that you just created and activated) from the dropdown menu and "Create your Billing Project".



This is how it will look at your finished.



You are all set to create workspaces and run analysis. Good Luck!