



Earth Engine

Early Access REST API

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Agenda

- API Overview
- Intro to Google Cloud Console
- Hands-On Workshop

API Overview

- Access Earth Engine data catalog and computation platform via an HTTP API
- Authenticate using [OAuth2](#), using personal account or service accounts
- Build custom applications on top of Earth Engine platform in any language
- Manage your API usage and quota in [Google Cloud Console](#)

API Overview

API is broken down into different categories of functionality:

- Asset Management (Create, Delete, Update, List, Get, Move and Copy **Assets**)
- Asset Sharing (Get and Set **Permissions**)
- Computations (**Compute** Value, Pixels, Features, and Images)
- Imports(**Import** Images and Tables)
- Exports (**Export** Images, Tables, Videos, Maps, and VideoMaps)
- List Images / Features (**List** Images in ImageCollection and Features in Table)
- Get Pixels (**Get** Pixels from Image)
- Map Tiles and Thumbnails (**Create** and **Get** Maps/Tiles and Thumbnails)
- Long Running Operations (List, Get, and Cancel **Operations**)

Google Cloud Console

First step is to [Create a Cloud Project](#):

1. Go to <http://console.cloud.google.com>
2. Select the Project Switcher
3. Press “New Project” at the top-right
4. Choose a project name and a unique id
5. Note that id is permanent for this project!

New Project



You have 12 projects remaining in your quota. Request an increase or delete projects. [Learn more](#)

[MANAGE QUOTAS](#)

Project name *

Earth Engine API Project

Project ID *

quantum-flow-252214



Project ID can have lowercase letters, digits, or hyphens. It must start with a lowercase letter and end with a letter or number.

Location *



No organization

[BROWSE](#)

Parent organization or folder

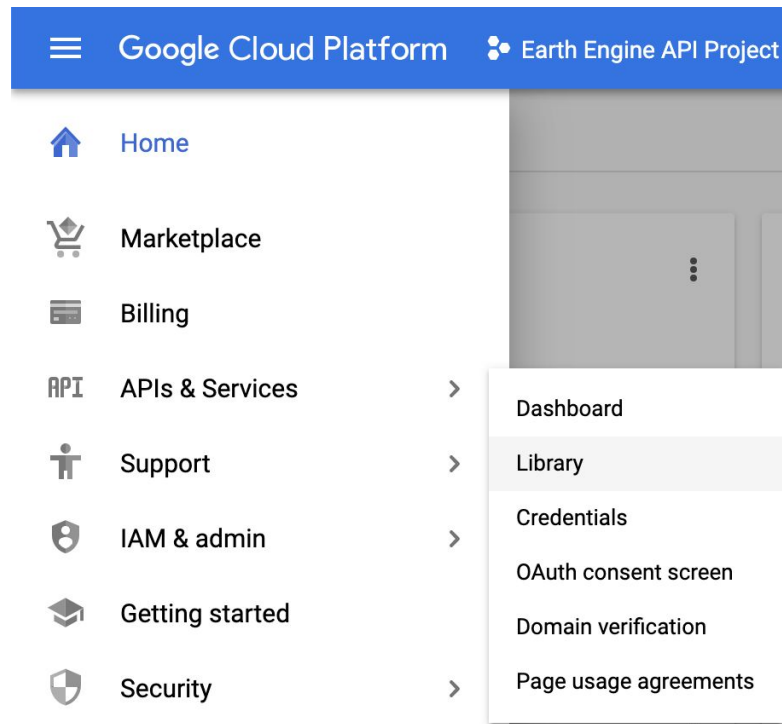
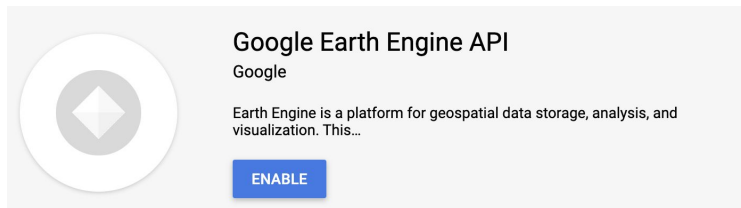
CREATE

CANCEL

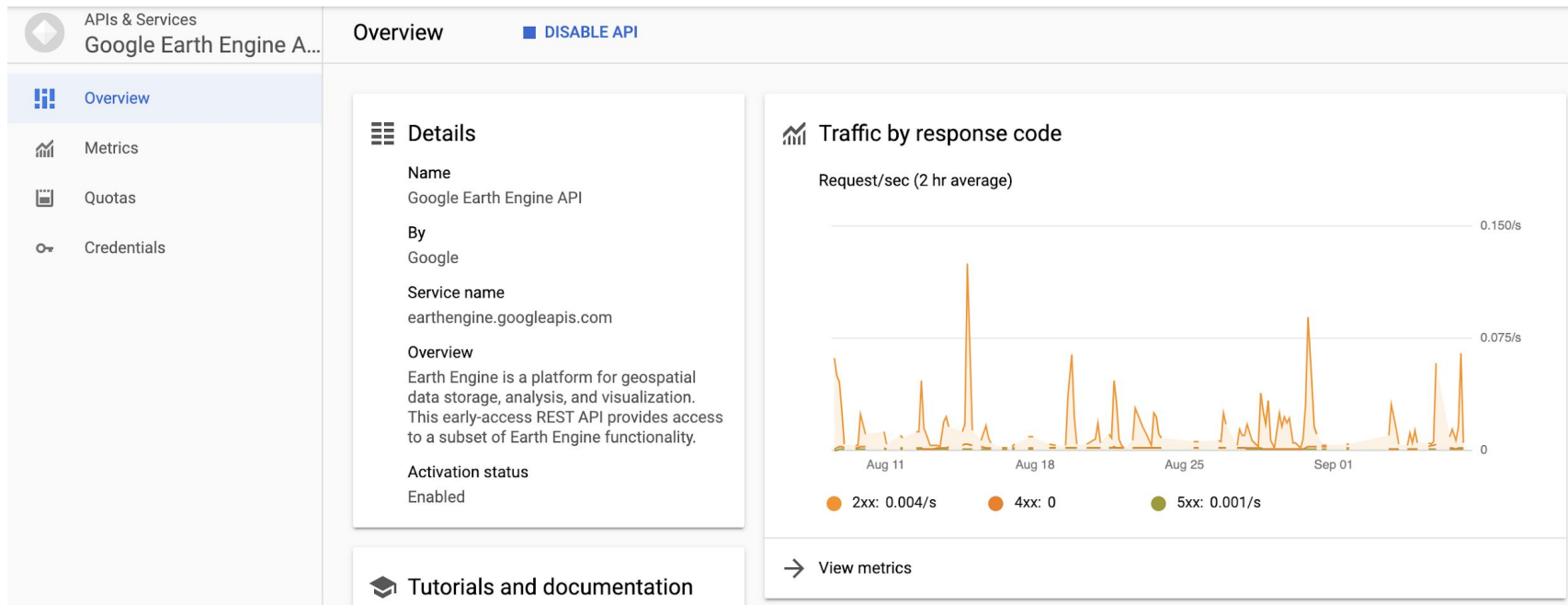
Google Cloud Console

Next, enable the Earth Engine API:

1. Click the Navigation Menu (top-left)
2. Select “APIs & Services > Library”
3. Search for “Google Earth Engine”
4. Select the API from the list
5. Press “Enable API”



Google Cloud Console



Next Steps

1. If you haven't already, [sign up for Google Earth Engine](#)
2. Request to be whitelisted for the Earth Engine REST API (<https://bit.ly/2kF7xc9>)
3. Follow the Google Earth Engine REST API Colab Notebook (<https://bit.ly/2korJPf>)
4. See the Earth Engine REST API [quickstart](#) and [reference documentation](#)

