



YouTube Setup Guide

Version 2.0.3

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Document Revision History

February 15, 2018

- Initial release of documentation

June 04, 2018

- Released v1.3.7

September 21, 2018

- Released v2.0.3

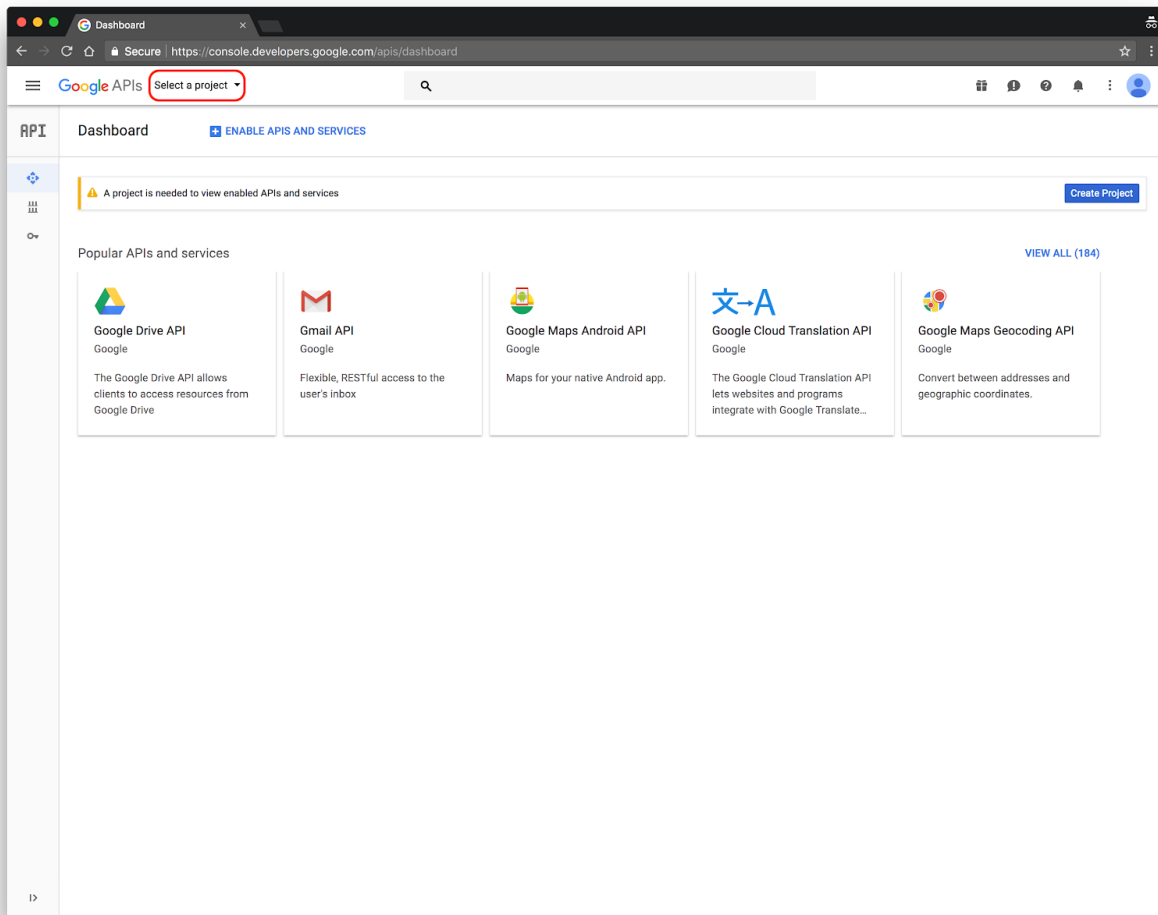
YouTube Account Setup (G Suite)

Preparations

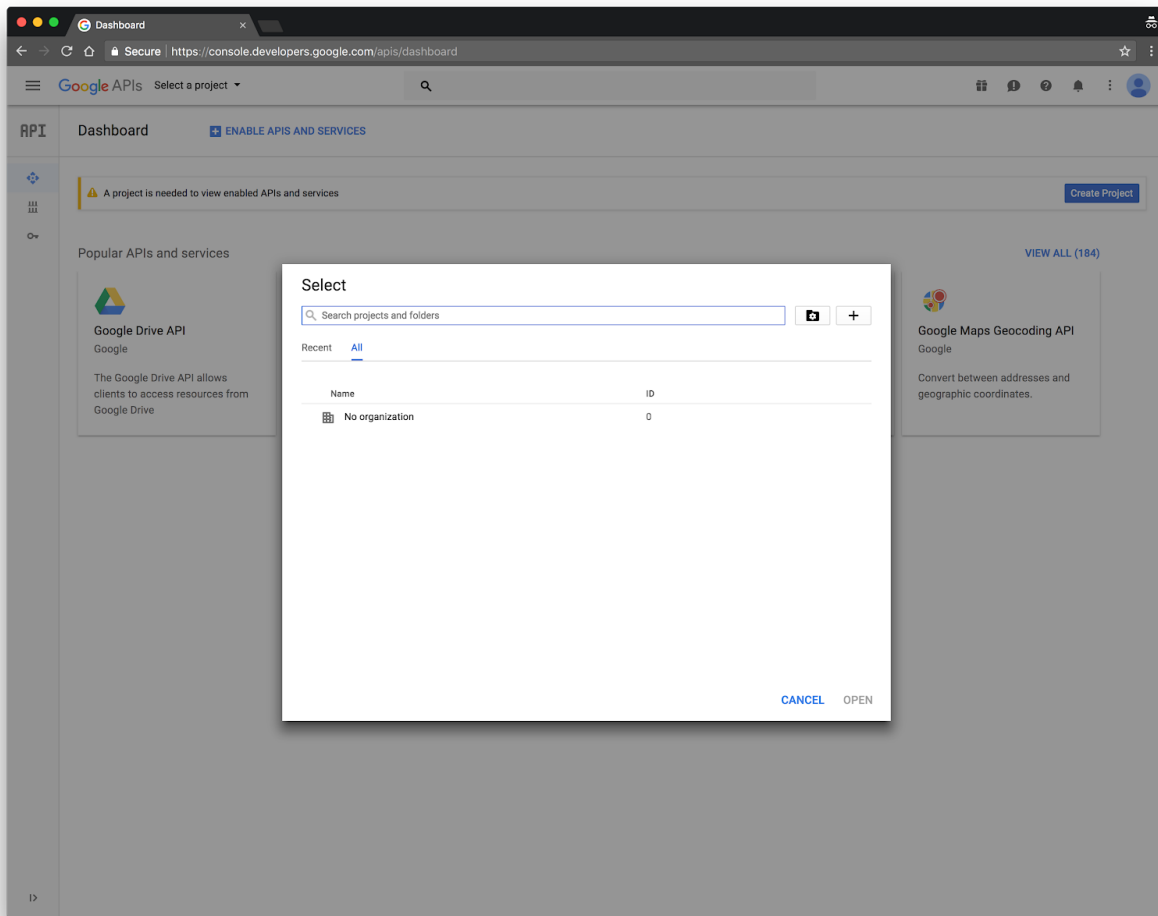
In order to link a YouTube G Suite account to Backpack, you need a service account from Google. Proceed with the following steps to create the service account,

Create Project

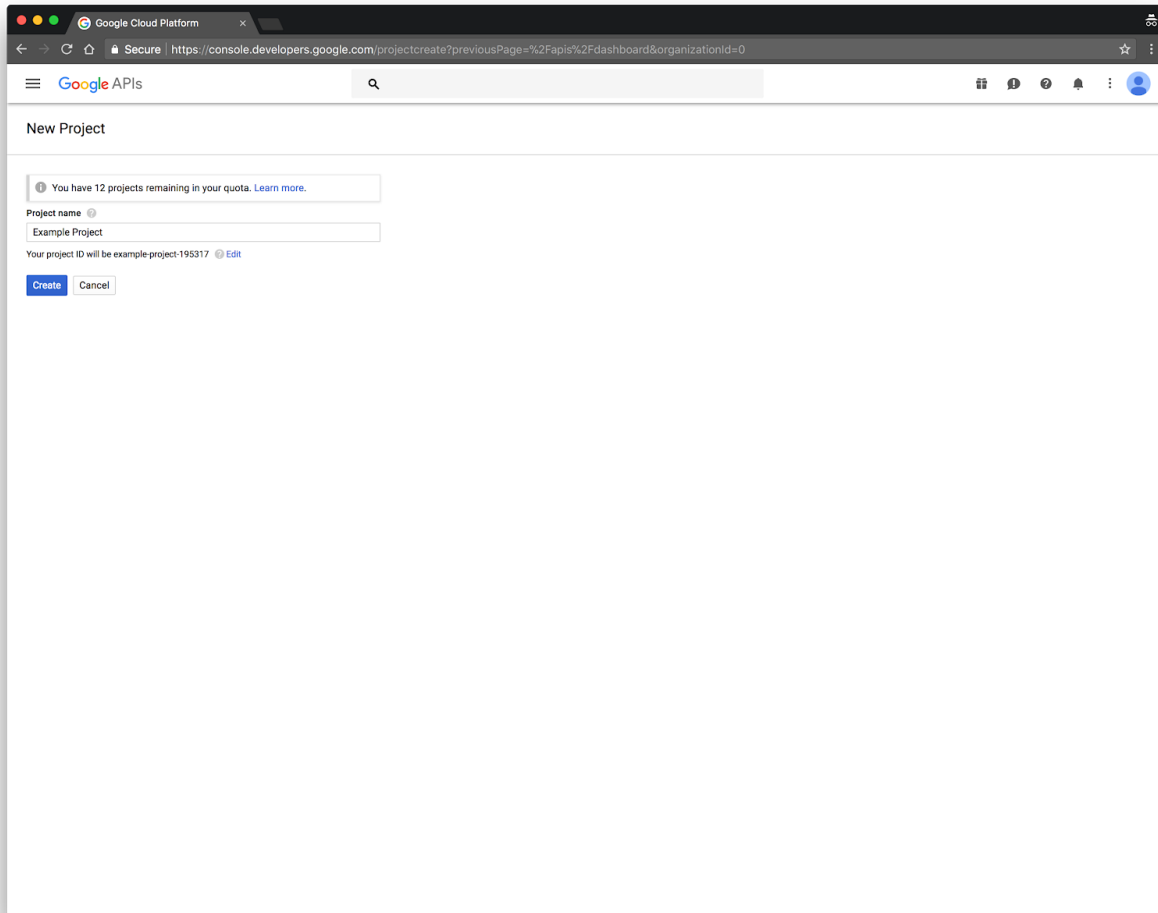
Open [Google Developer Console](https://console.developers.google.com), Use the **Project selector** on the top left corner of the page to create a new project.



Use the **Plus icon** to add new Project, It will take you to new page asking for **Project Name**

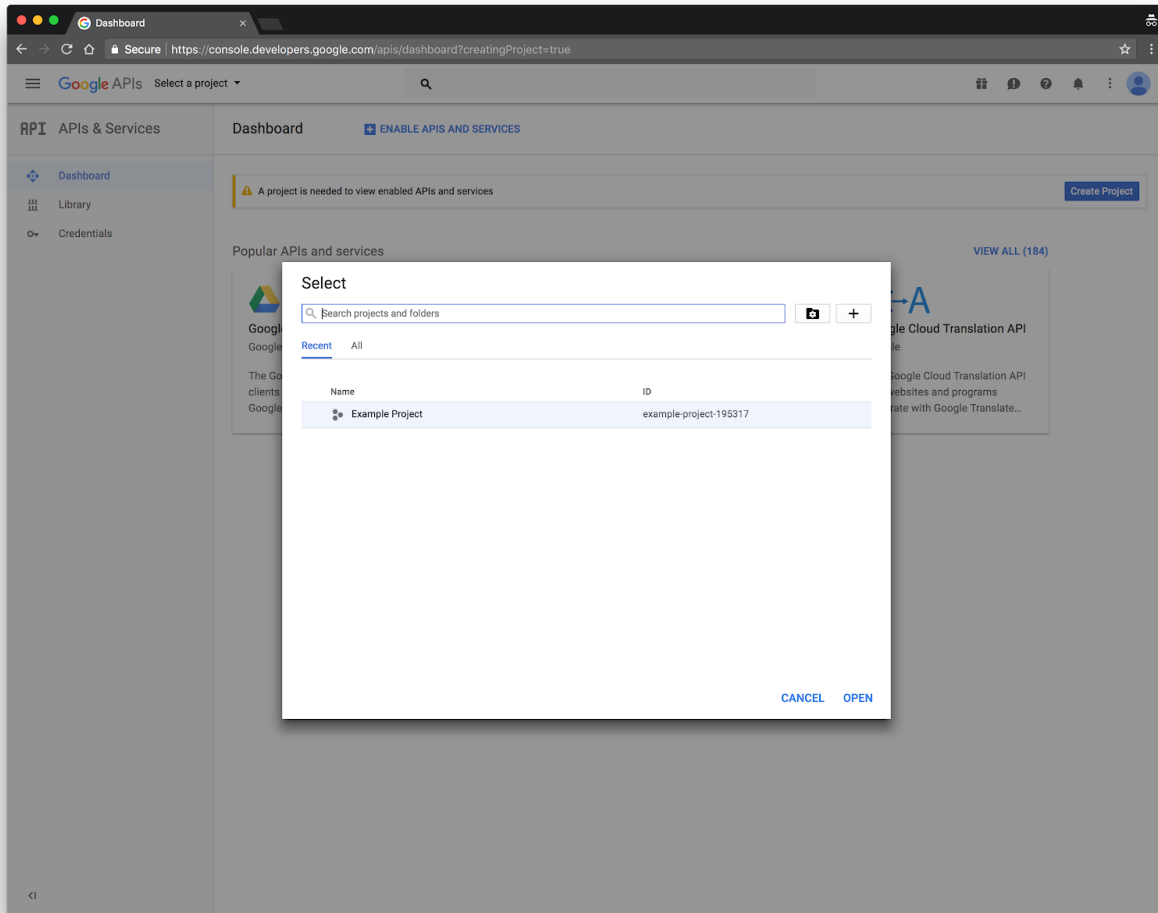


Enter the project name and click **“Create”** to create new project. It'll take few seconds to create the project.



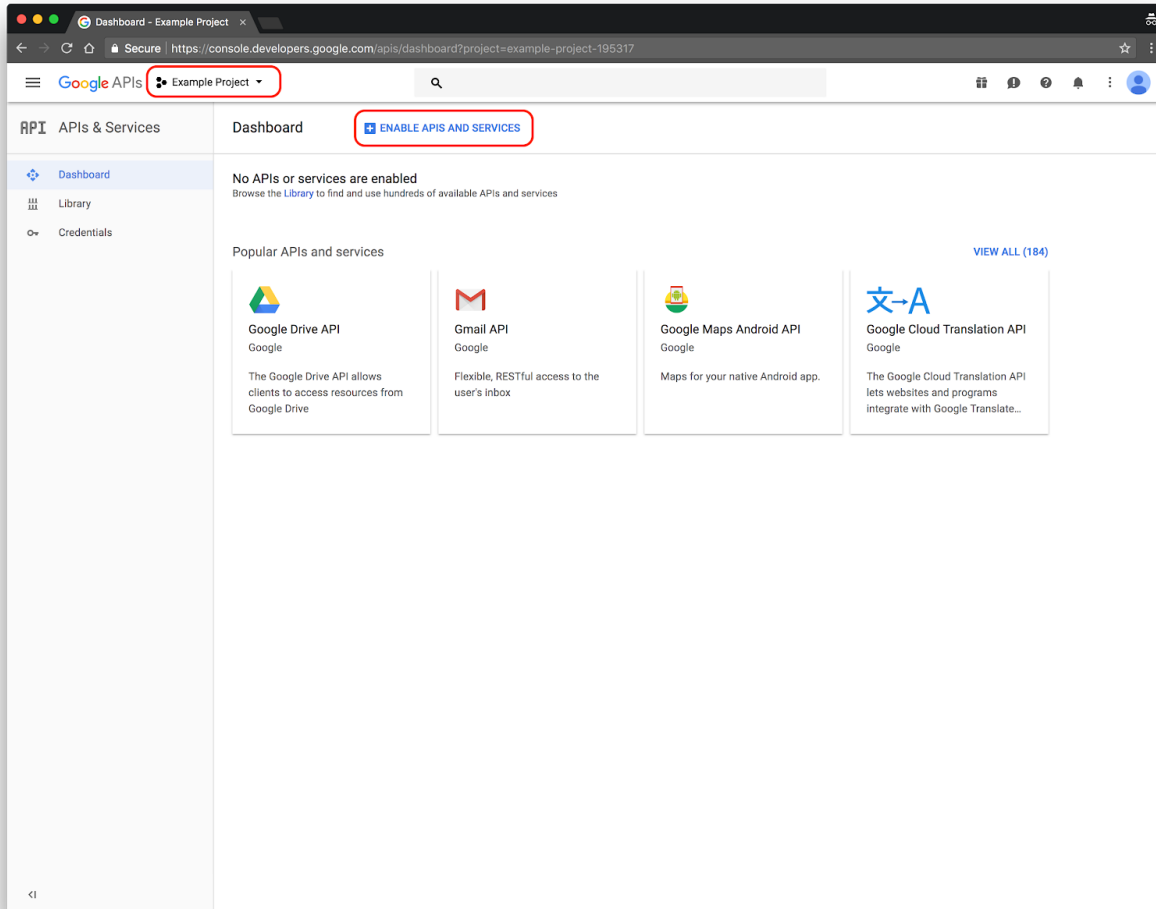
The screenshot shows the 'New Project' page in the Google Cloud Platform console. The browser's address bar displays the URL: `https://console.developers.google.com/projectcreate?previousPage=%2Fapis%2Fdashboard&organizationId=0`. The page header includes the 'Google APIs' logo and a search bar. The main content area is titled 'New Project' and contains a quota notification: 'You have 12 projects remaining in your quota. [Learn more.](#)'. Below this, there is a 'Project name' input field with the placeholder text 'Example Project'. Underneath the input field, it states 'Your project ID will be example-project-195317' with an 'Edit' link. At the bottom of the form, there are two buttons: 'Create' (in blue) and 'Cancel' (in grey).

Use the **Project selector** to select the project you just created, Click on the project name to select it.

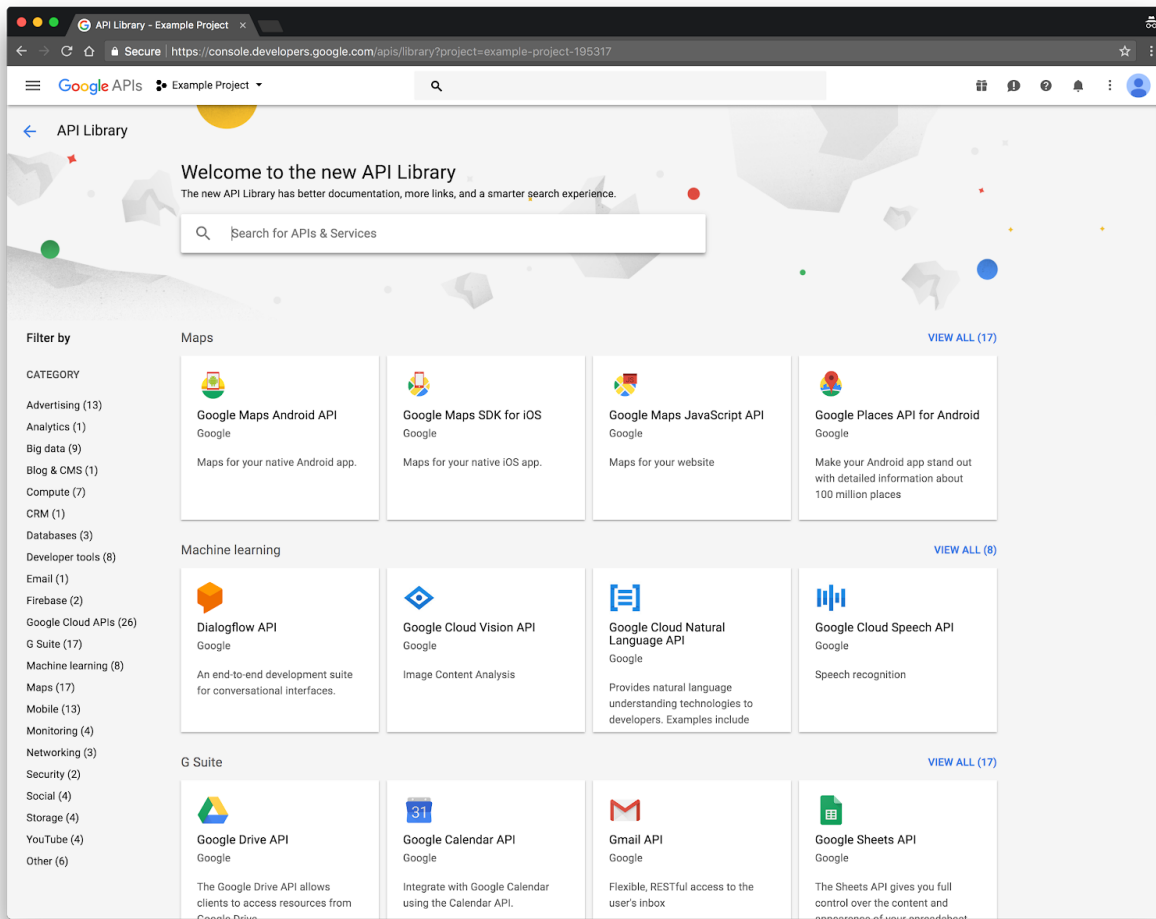


Enable API Services

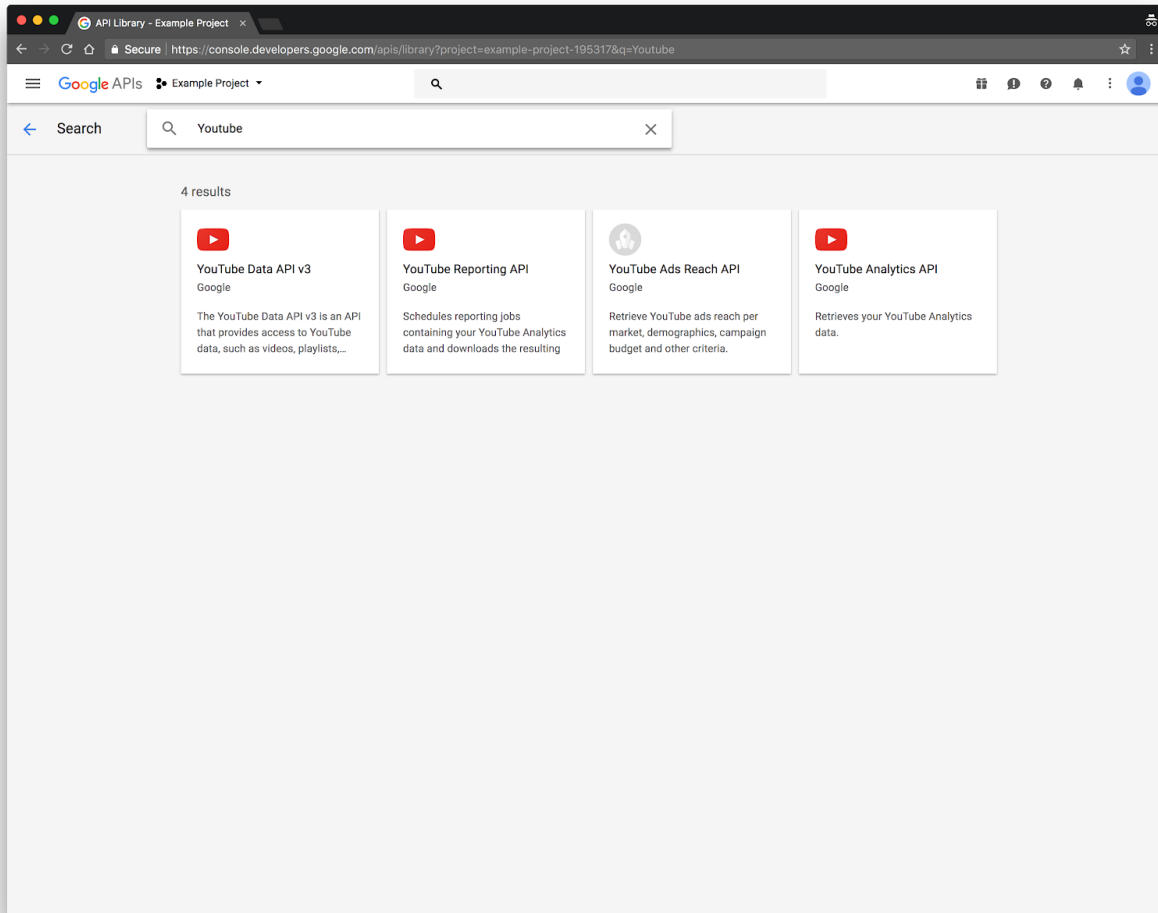
After selecting the project, Click on **“ENABLE APIS AND SERVICES”** button to go the API Library.



Type **YouTube** in the search bar for API's and Services.



Select **“YouTube Data API v3”** and click **“Enable”**. Follow the previous steps and enable **“YouTube Analytics API”**




APIs & Services - Example Project

Secure | https://console.developers.google.com/apis/library/youtube.googleapis.com?q=YouTube&id=125bab65-cfb6-4f25-9826-4d0c309bc508&project=example-project-195317

Google APIs | Example Project

API Library



YouTube Data API v3

Google

The YouTube Data API v3 is an API that provides access to YouTube data, such as videos, playlists,...

[ENABLE](#)[TRY THIS API](#)

Type
[APIs & services](#)

Last updated
6/29/17, 6:17 PM

Category
[YouTube](#)

Service name
youtube.googleapis.com

Overview

The YouTube Data API v3 is an API that provides access to YouTube data, such as videos, playlists, and channels.

About Google

Google's mission is to organize the world's information and make it universally accessible and useful. Through products and platforms like Search, Maps, Gmail, Android, Google Play, Chrome and YouTube, Google plays a meaningful role in the daily lives of billions of people.

Tutorials and documentation

[Learn more](#)


Maintenance & support

[Learn more](#)

Terms of service

By using this product you agree to the terms and conditions of the following license(s): [YouTube Data API v3](#)


More solutions to explore



YouTube Analytics API

Google


Retrieves your YouTube Analytics



Gmail API

Google

Flexible, RESTful access to the

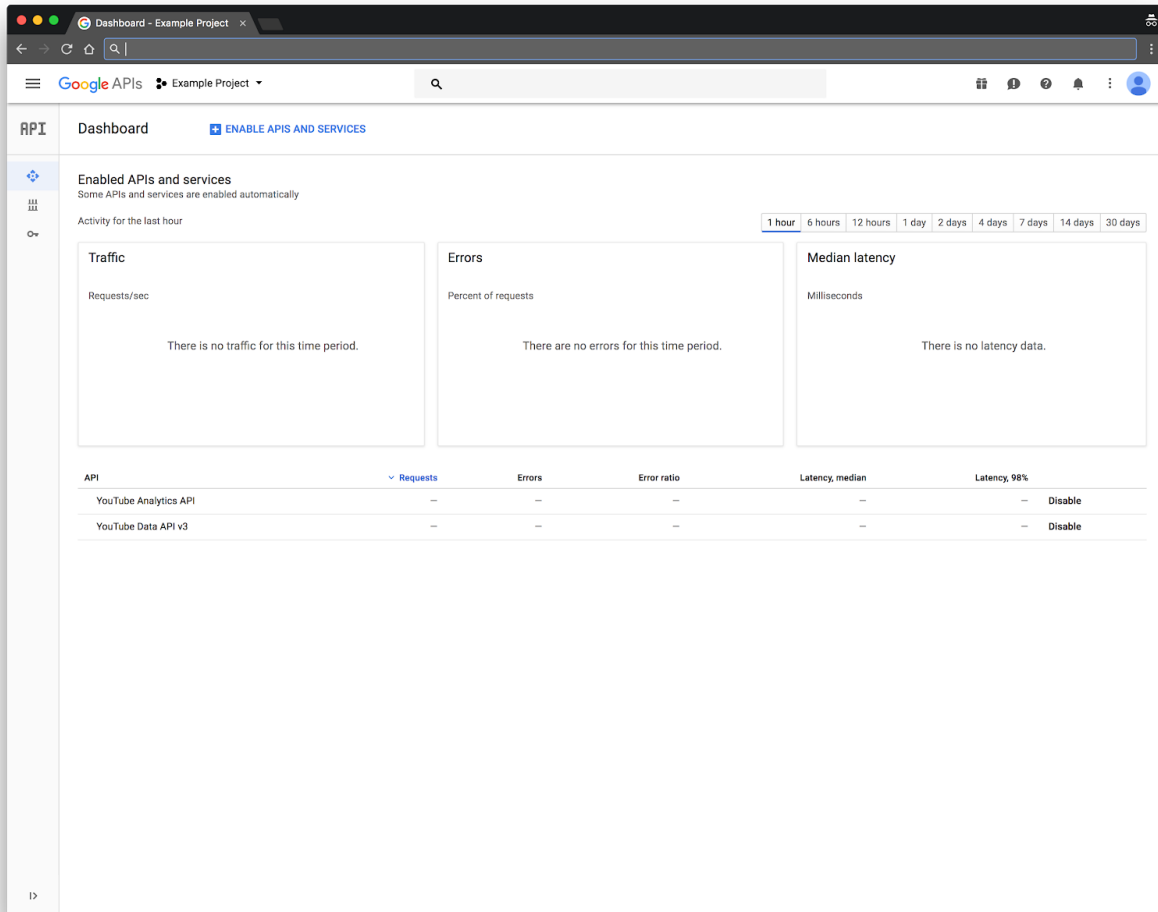


Google+ API

Google

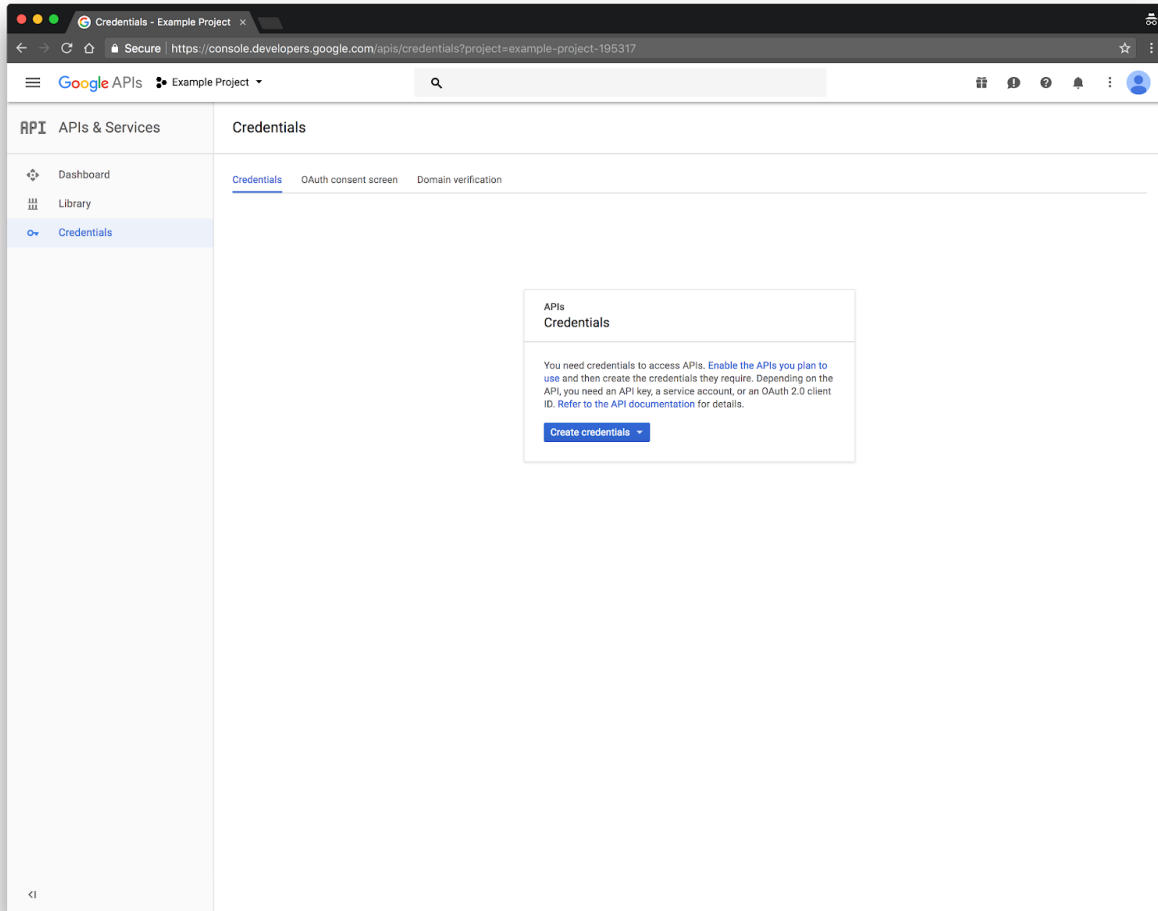
The Google+ API enables

After enabling both “YouTube Data API v3” and “YouTube Analytics API”, Open the [dashboard](#) page and you should be able to see names of both the API’s under “**API**”

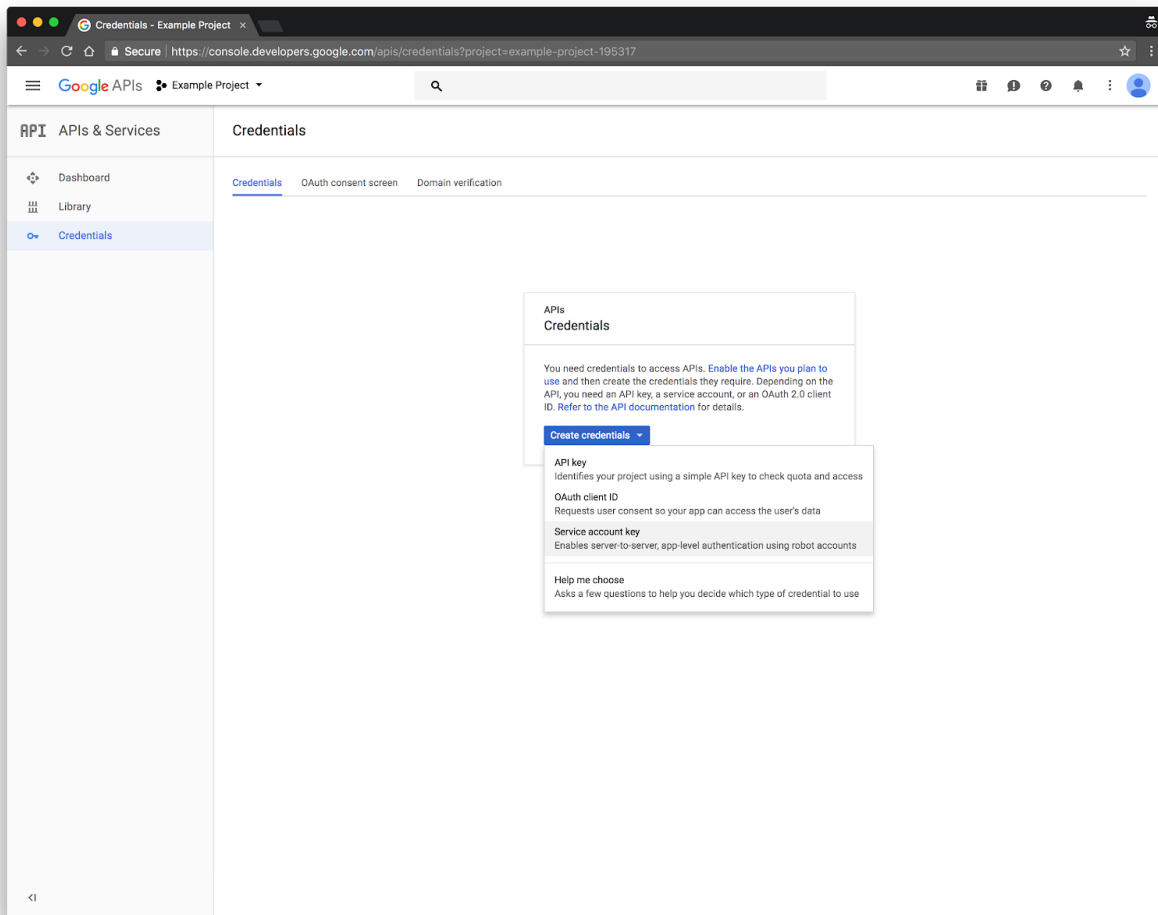


Create Service Account

Open the [dashboard](#) and click on “**Credentials**” on the left sidebar.



Click on “**Create Credentials**” and select “**Service account key**” to create new service account.

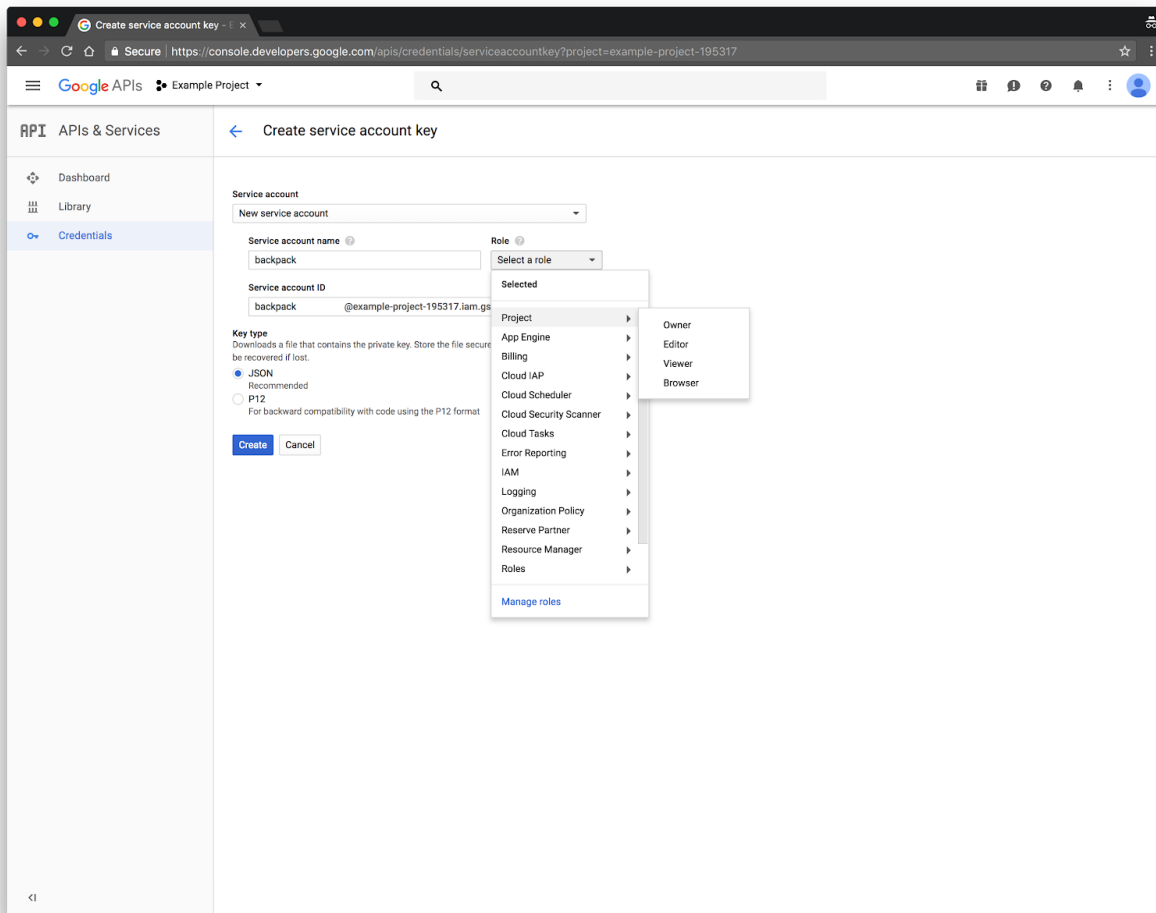


Under “**Service account**” select “**New service account**” to add new service account. Fill the service account name form with the name of the service account and select the Key type to be JSON

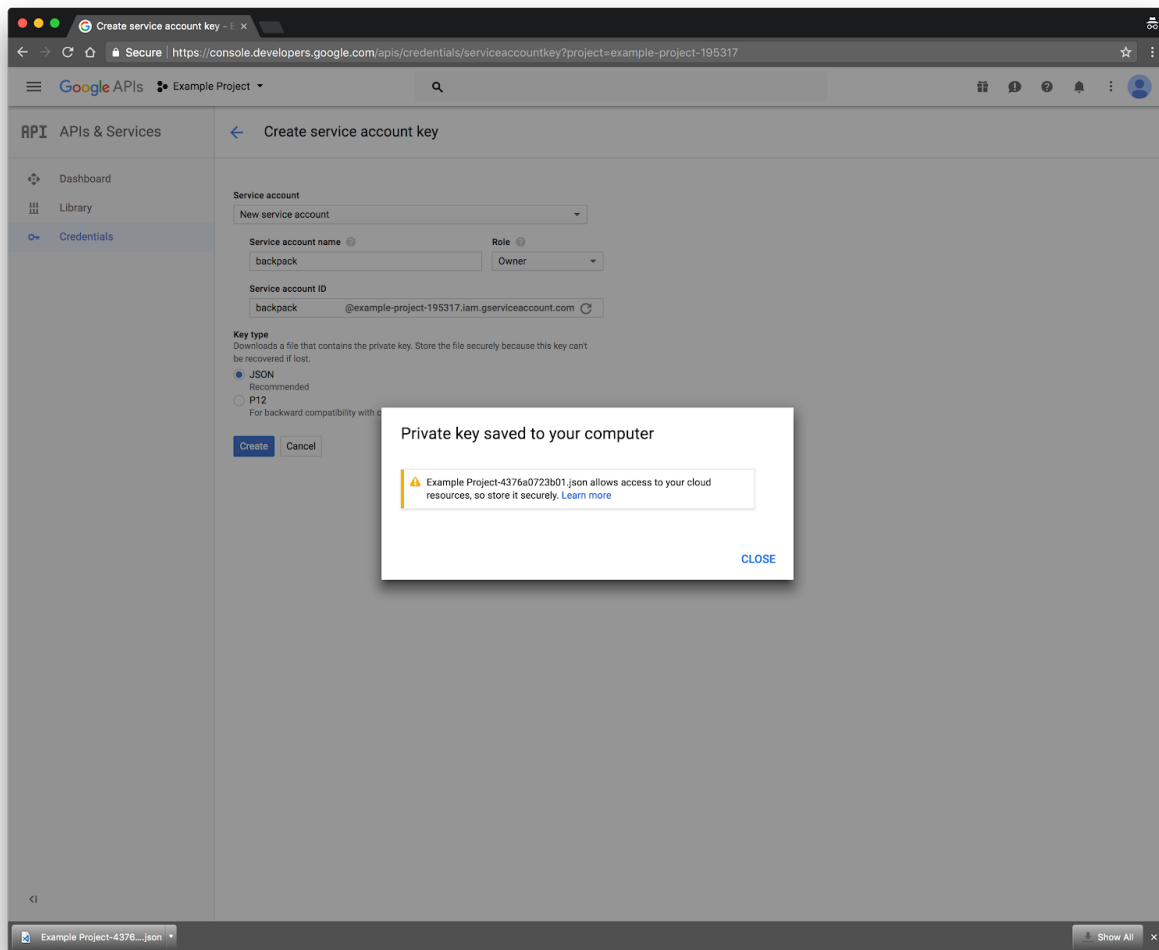
The screenshot shows the 'Create service account key' page in the Google Cloud Platform console. The left sidebar contains the 'APIs & Services' menu with 'Dashboard', 'Library', and 'Credentials' options. The main content area is titled 'Create service account key' and contains the following fields and options:

- Service account:** A dropdown menu set to 'New service account'.
- Service account name:** A text input field containing 'backpack'.
- Role:** A dropdown menu set to 'Select a role'.
- Service account ID:** A text input field containing 'backpack' followed by '@example-project-195317.iam.gserviceaccount.com'.
- Key type:** A section with two radio buttons: 'JSON' (selected) and 'P12' (unselected). Below the 'P12' option is the text 'For backward compatibility with code using the P12 format'.
- Buttons:** 'Create' and 'Cancel' buttons at the bottom.

Click on **“Role”** and select **“Owner”** under **“Project”**, Click **“Create”** to create new service account.



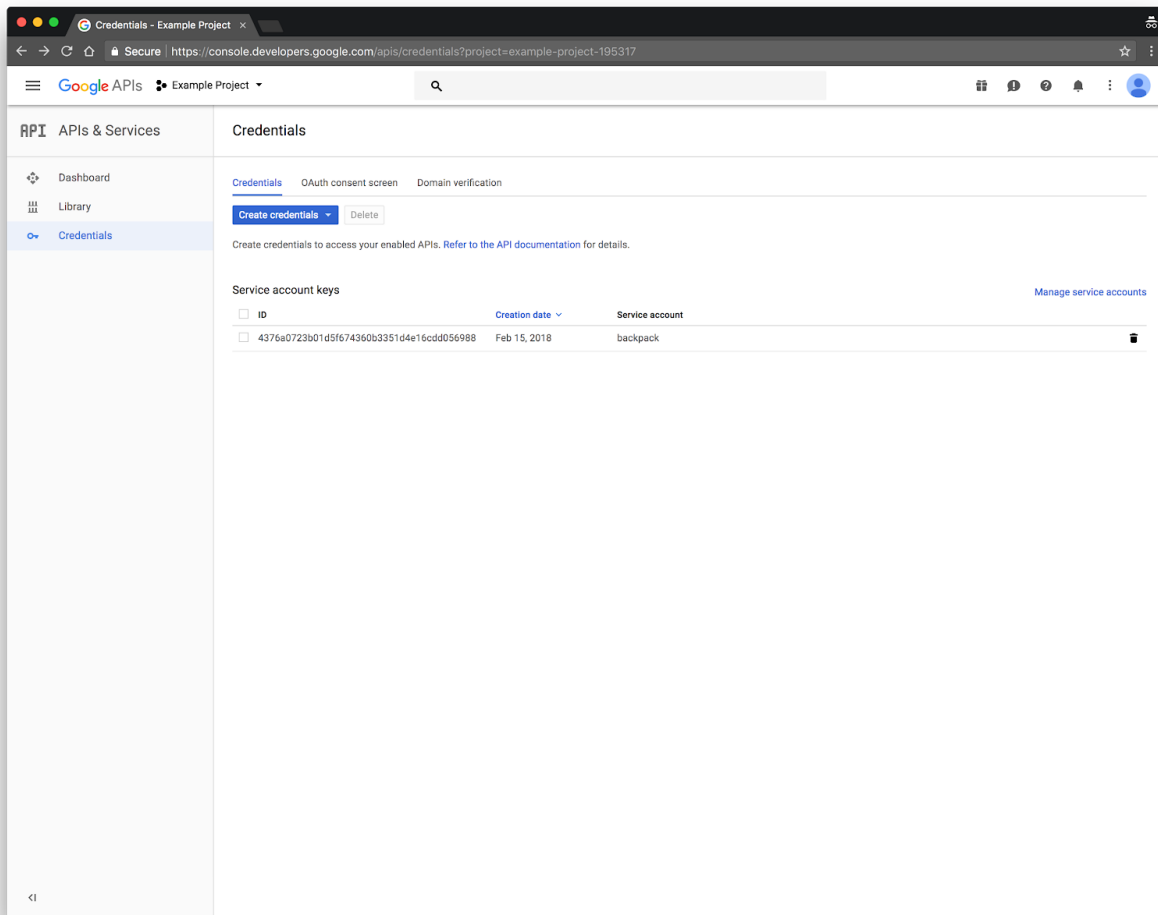
After clicking on create, service account credentials are automatically downloaded on to your computer.



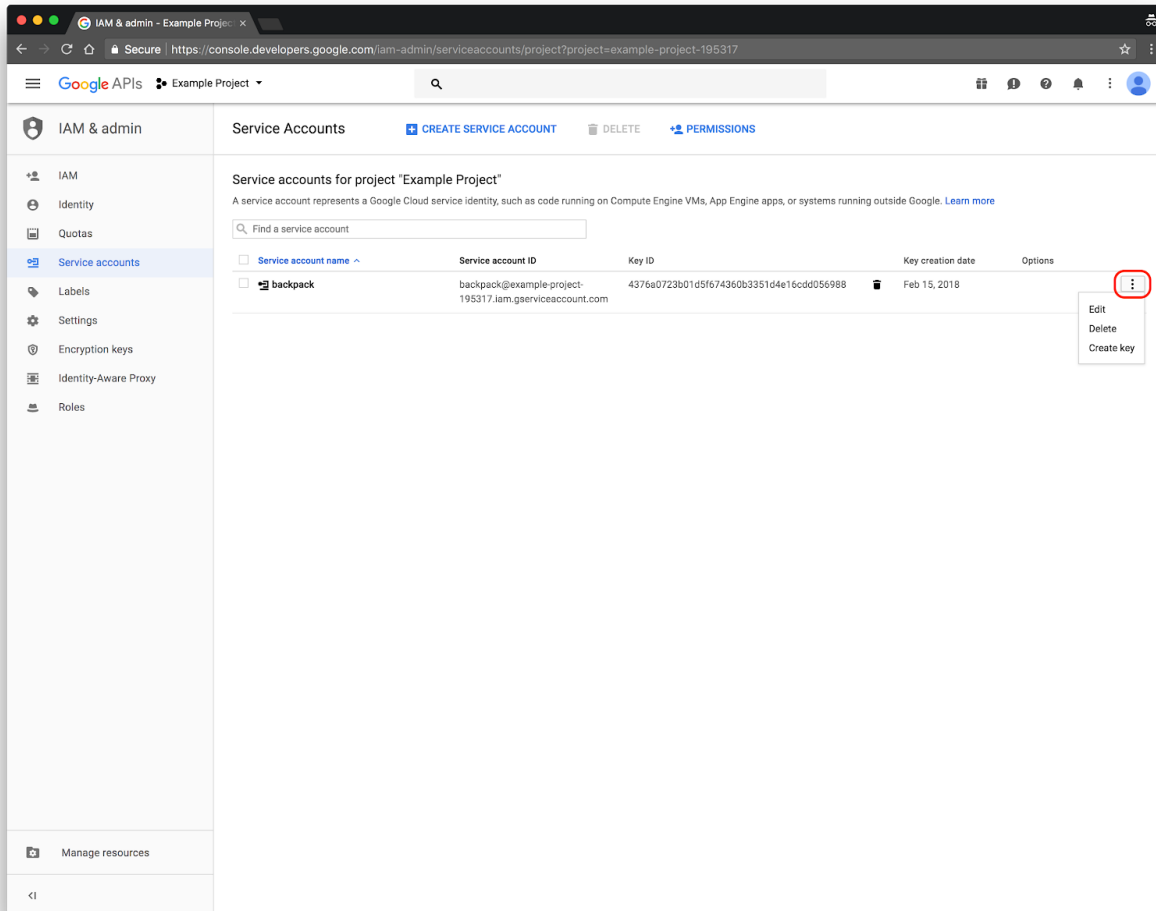
If you open the downloaded JSON file in the text editor it should look similar to the following:

[illegible]

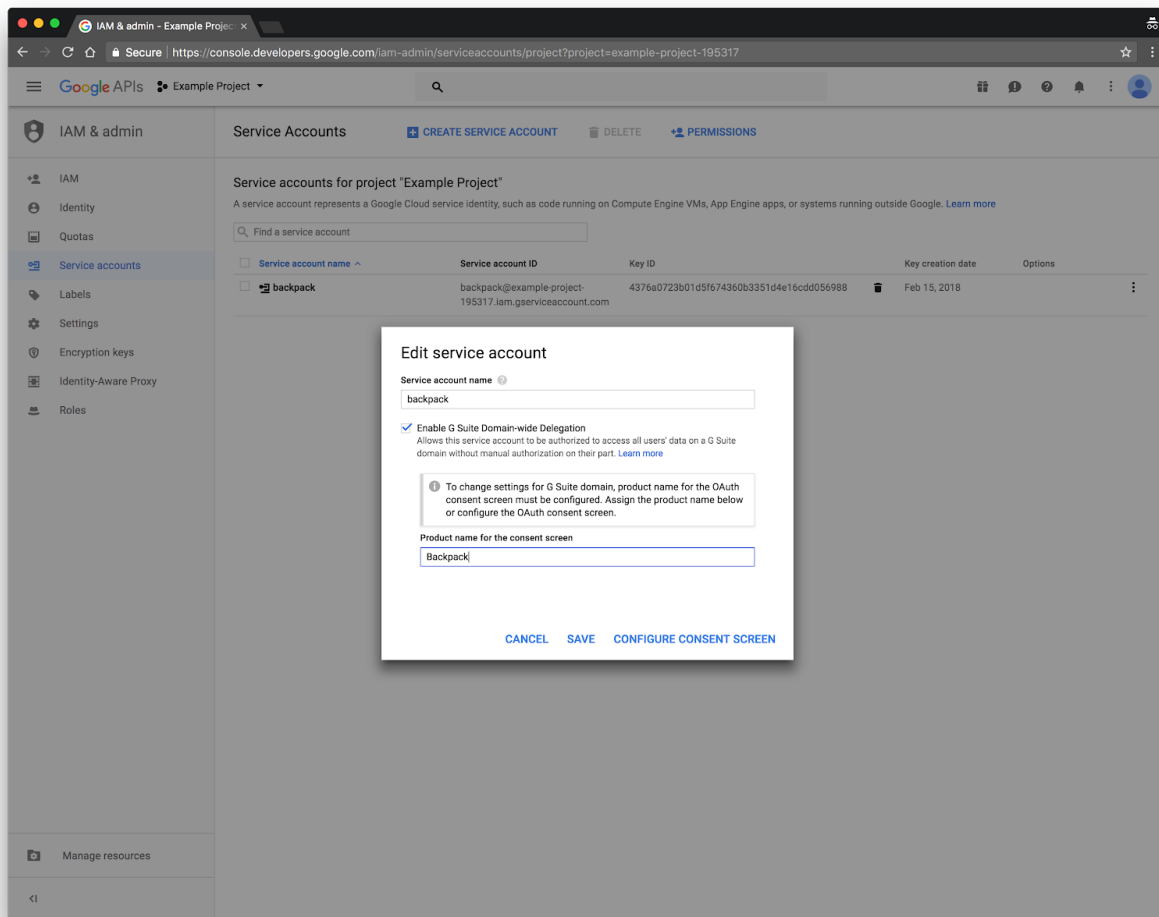
Open [Credentials](#) page and click on “**Manage service accounts**” next to “Service account keys”.



Click **Options Icon** on the far right side of the service account you just created and click on **Edit**



Check “**Enable G-Suite Domain-wide delegation**”, Enter the name in the form below it and click “**Save**”



Domain Wide Delegation Setup

The service account needs to be granted access to the G Suite domain's user data. Ask you G Suite domain administrator to follow the below steps to set it up.

1. Go to your G Suite domain's [Admin console](#).
2. Select **Security** from the list of controls. If you don't see **Security** listed, select **More controls** from the gray bar at the bottom of the page, then select **Security** from the list of controls.
3. Select **Advanced settings** from the list of options.
4. Select **Manage API client access** in the **Authentication** section.
5. In the **Client name** field enter the service account's **Client ID**.
6. In the **One or More API Scopes** field enter the following list of scopes to enable Service account to access your youtube account
 - a. <https://www.googleapis.com/auth/youtubepartner>
 - b. <https://www.googleapis.com/auth/youtube>
 - c. <https://www.googleapis.com/auth/youtube.upload>
 - d. <https://www.googleapis.com/auth/youtube.force-ssl>
7. Click the **Authorize** button.

YouTube Account Setup (Personal)

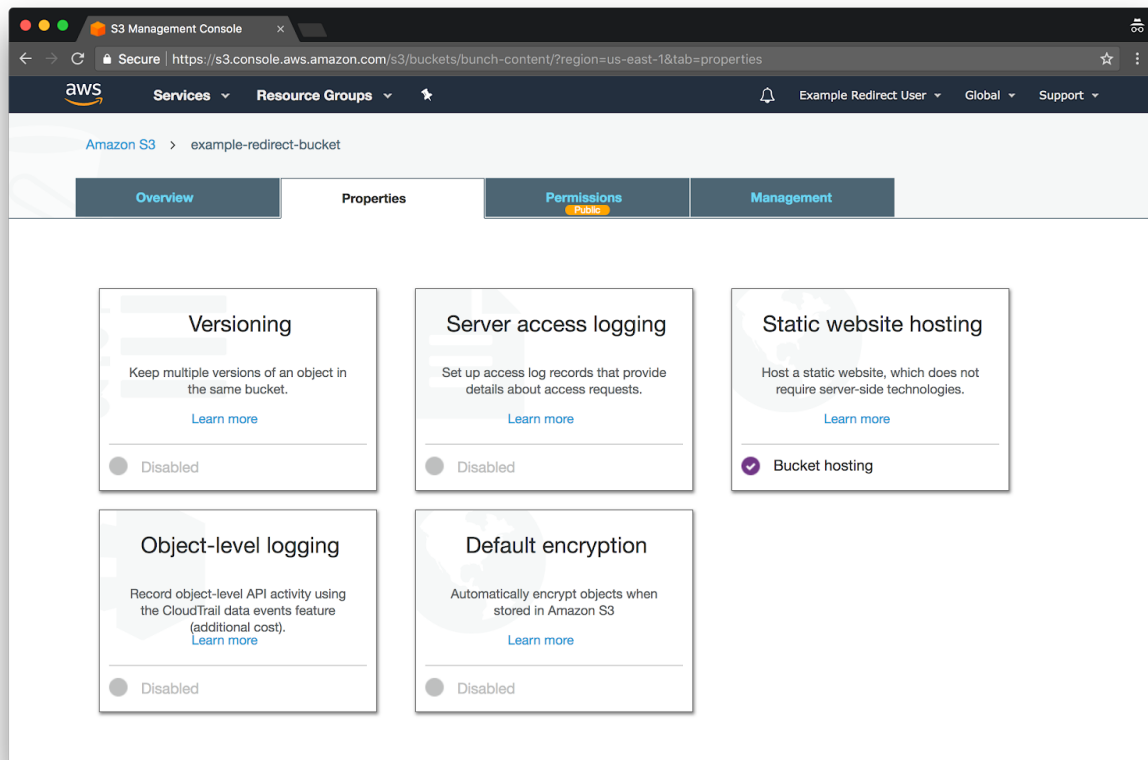
Preparations

In order to link a personal YouTube account to Backpack, you need a OAuth Client ID from Google. Proceed with the following steps to create the OAuth Client.

Redirect URL Setup

Personal YouTube account authorization requires the user to to a URL with a standard top level domain like **.com** or **.org**. If the Backpack server is hosted on a internal top level domain domain, like **.int** a URL redirect will be required. **Please consult with your system administrator for information and policies regarding external URLs.** If your Backpack server is not hosted on an internal domain you can proceed to the [Create Project](#) step.

Amazon offers a straightforward redirect mechanism to redirect to AWS S3 which can be set up using the Amazon S3 console. Create a new S3 bucket, navigate to the **Properties** tab and click **Static Website hosting**.



From the **Static website hosting** panel, enter the Backpack server's internal domain and protocol. The bucket URL should now redirect to your internal domain, and can be used as the **Authorized redirect URI** required in subsequent steps.

The screenshot shows the AWS S3 Management Console interface. The main panel is titled "Static website hosting" and contains the following configuration options:

- Endpoint : <http://example-redirect-bucket.s3-website-us-east-1.amazonaws.com>
- ☐ Use this bucket to host a website [Learn more](#)
- ☒ Redirect requests [Learn more](#)
- Target bucket or domain:
- Protocol:
- ☐ Disable website hosting

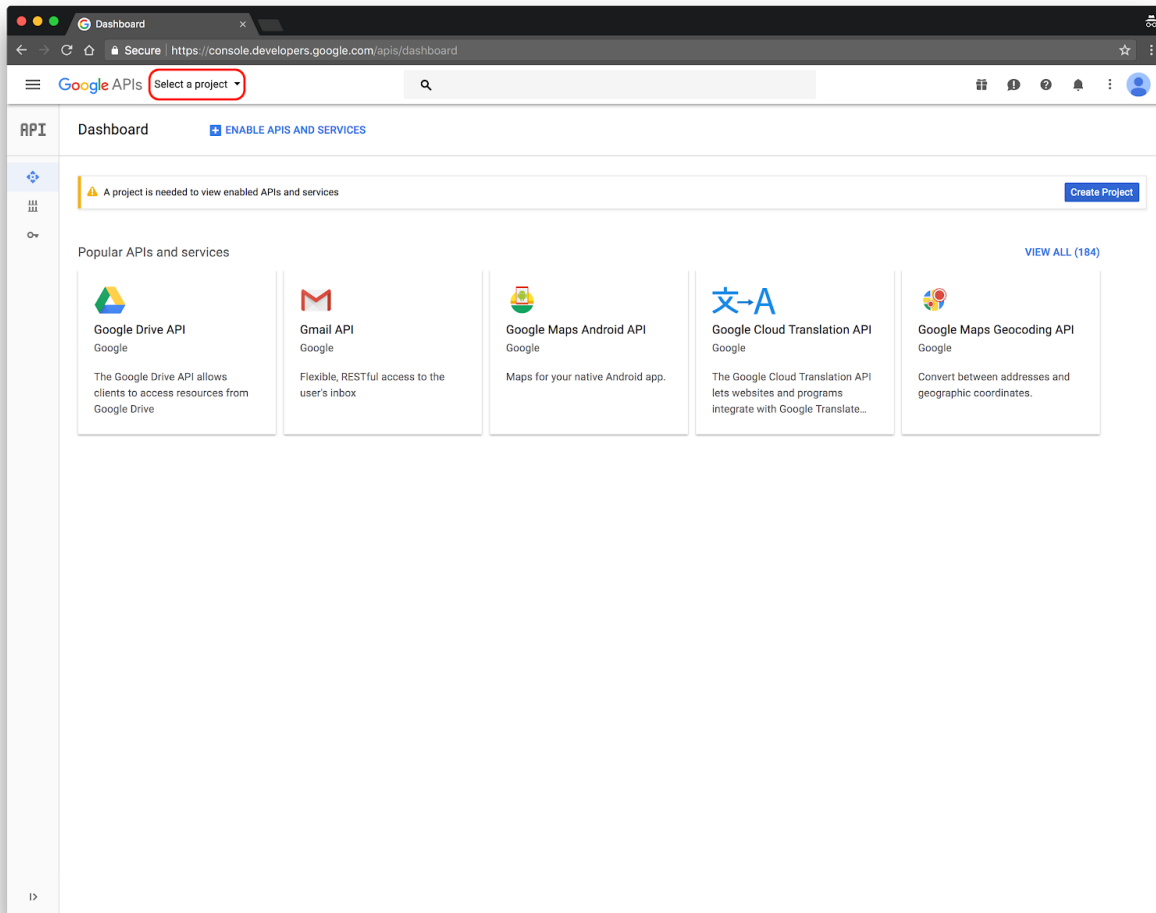
At the bottom of the panel are "Cancel" and "Save" buttons.

Two side panels are also visible:

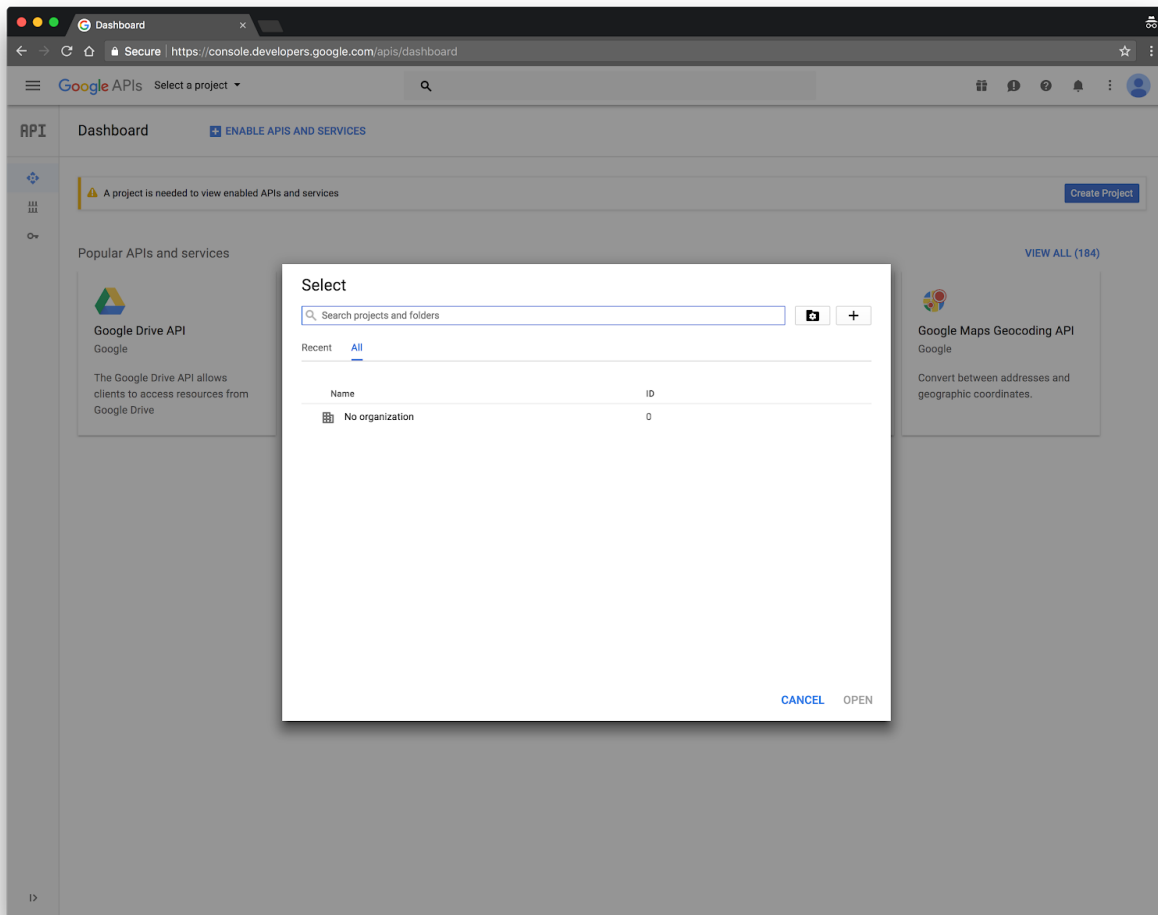
- Object-level logging**: Record object-level API activity using the CloudTrail data events feature (additional cost). [Learn more](#). The toggle is set to "Disabled".
- Default encryption**: Automatically encrypt objects when stored in Amazon S3. [Learn more](#). The toggle is set to "Disabled".

Create Project

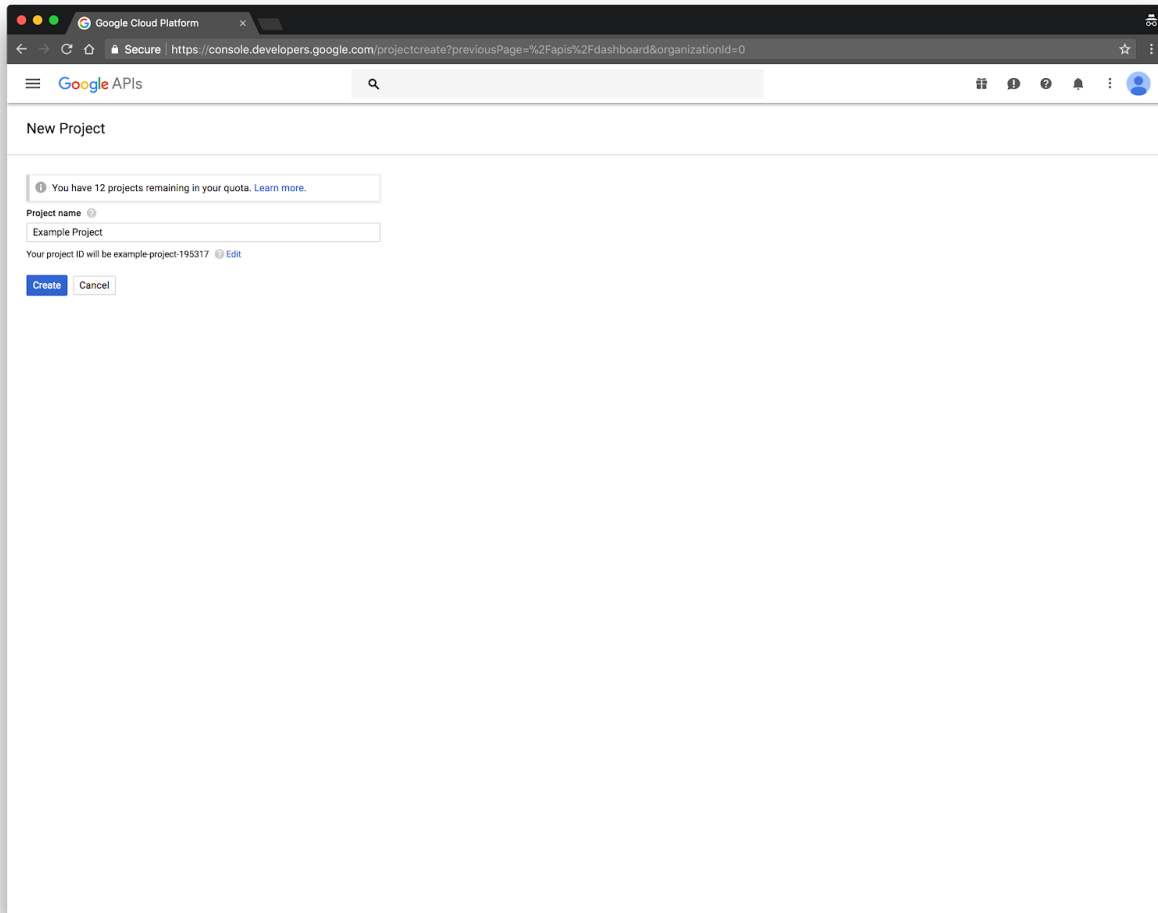
Open [Google Developer Console](https://console.developers.google.com/apis/dashboard), Use the **Project selector** on the top left corner of the page to create a new project.



Use the **Plus icon** to add new Project, It will take you to new page asking for **Project Name**

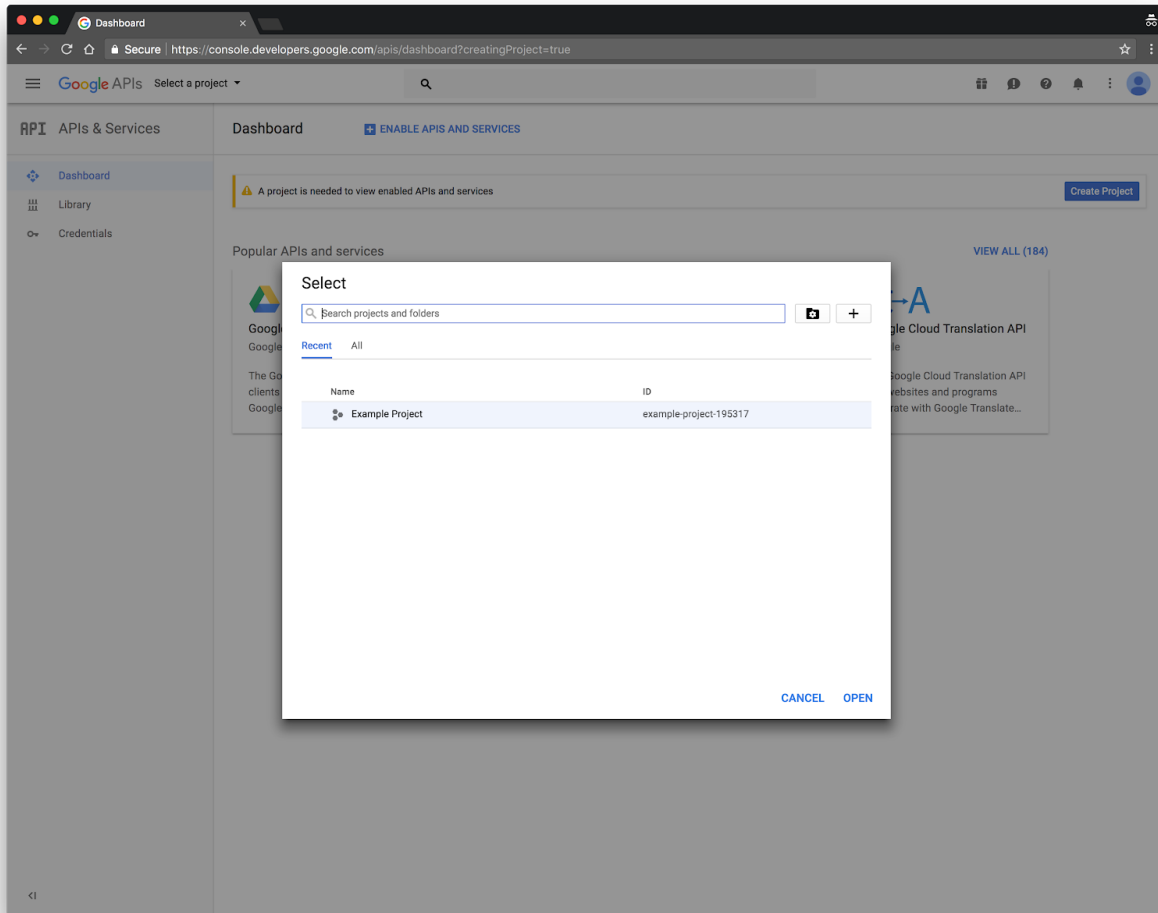


Enter the project name and click “**Create**” to create new project. It’ll take few seconds to create the project.



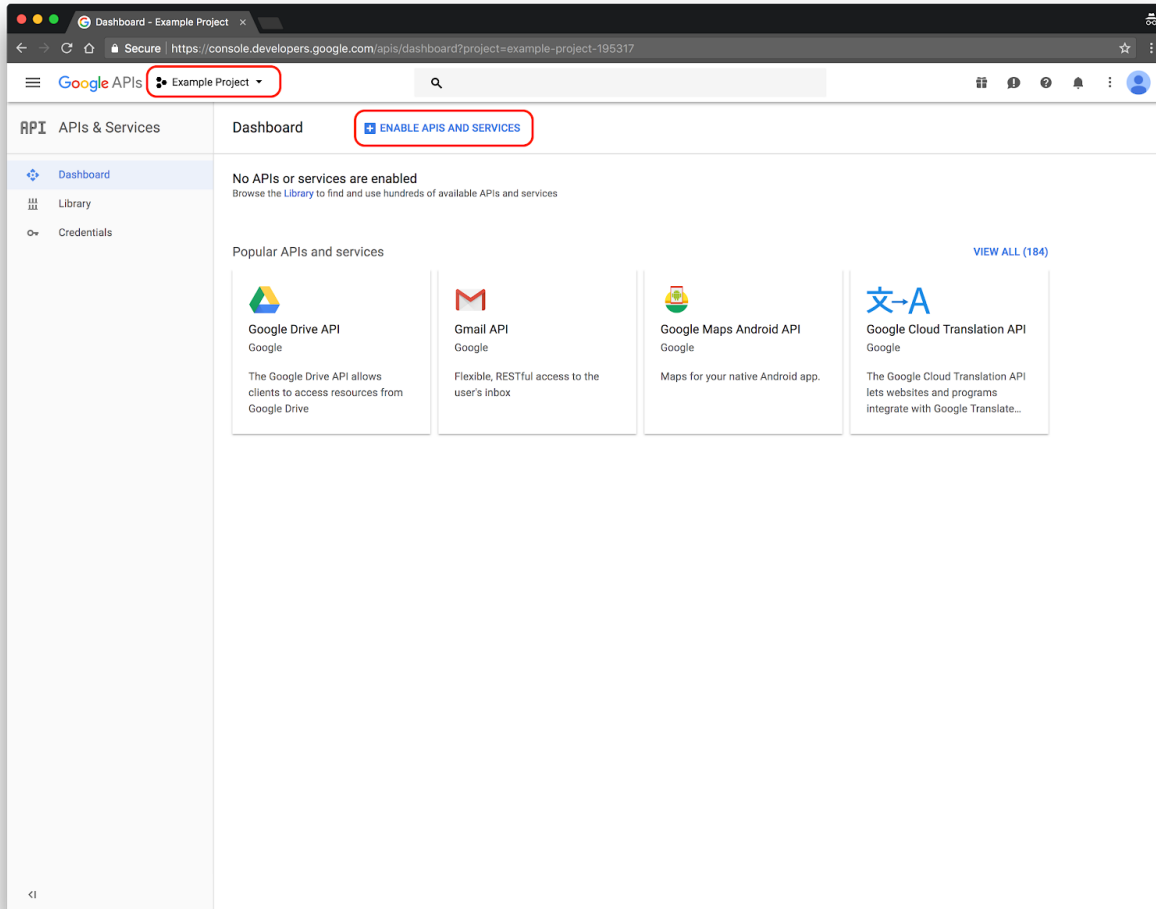
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Use the **Project selector** to select the project you just created, Click on the project name to select it.

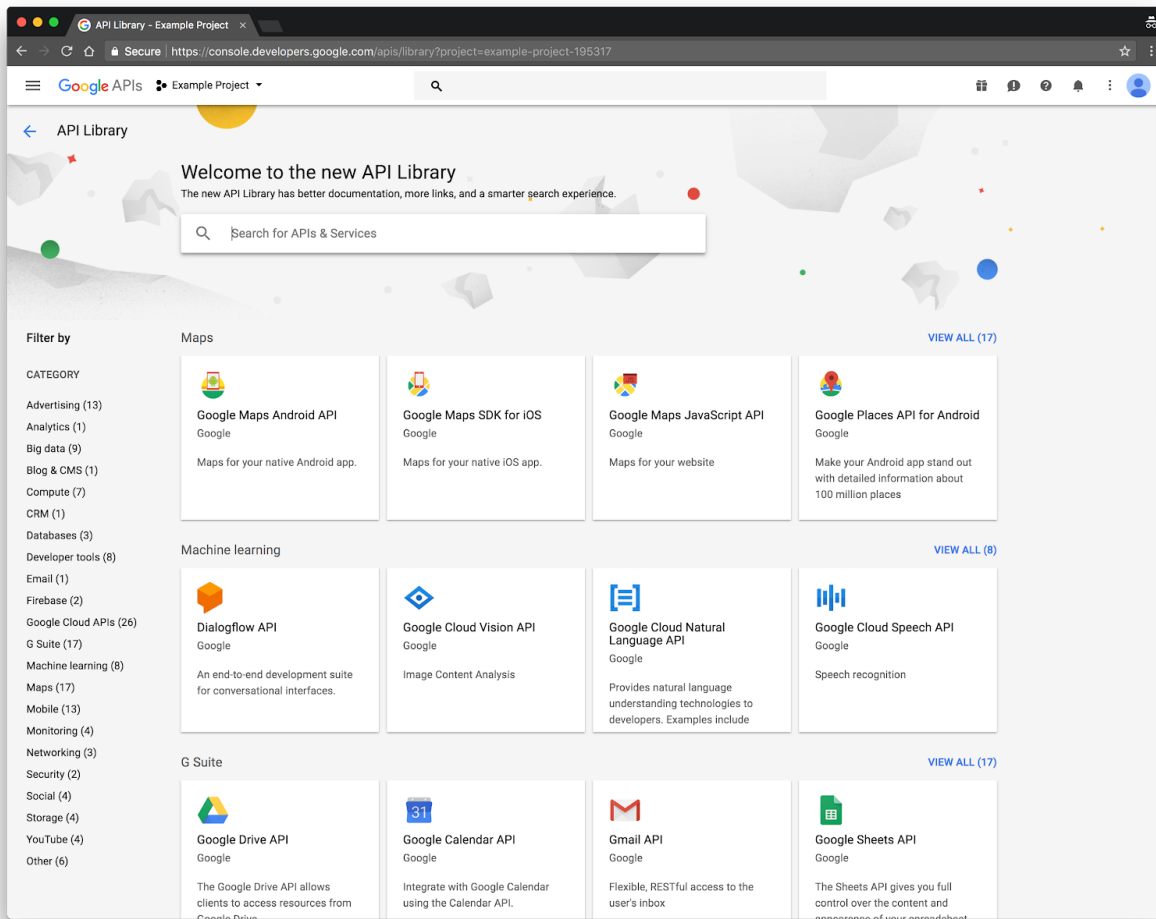


Enable API Services

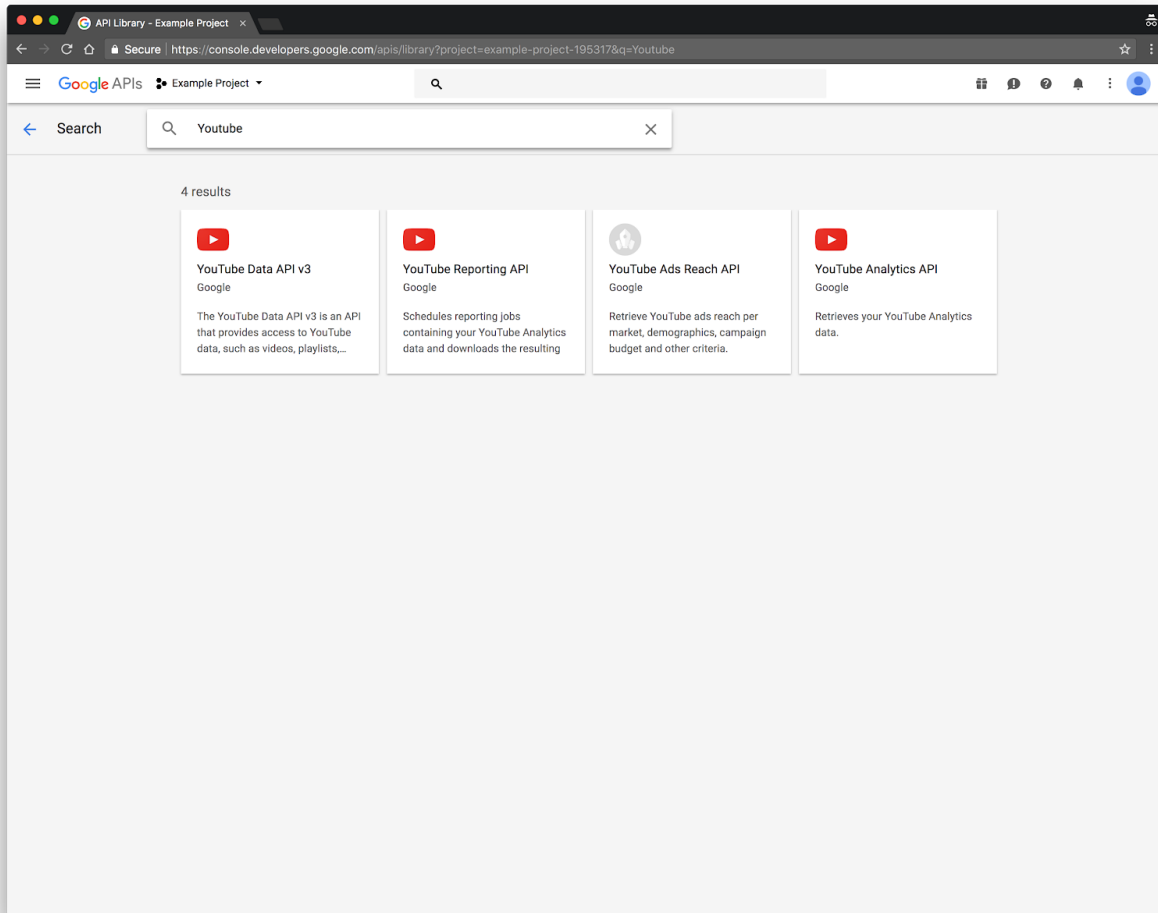
After selecting the project, Click on “**ENABLE APIS AND SERVICES**” button to go the API Library.

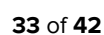


Type **YouTube** in the search bar for API's and Services.

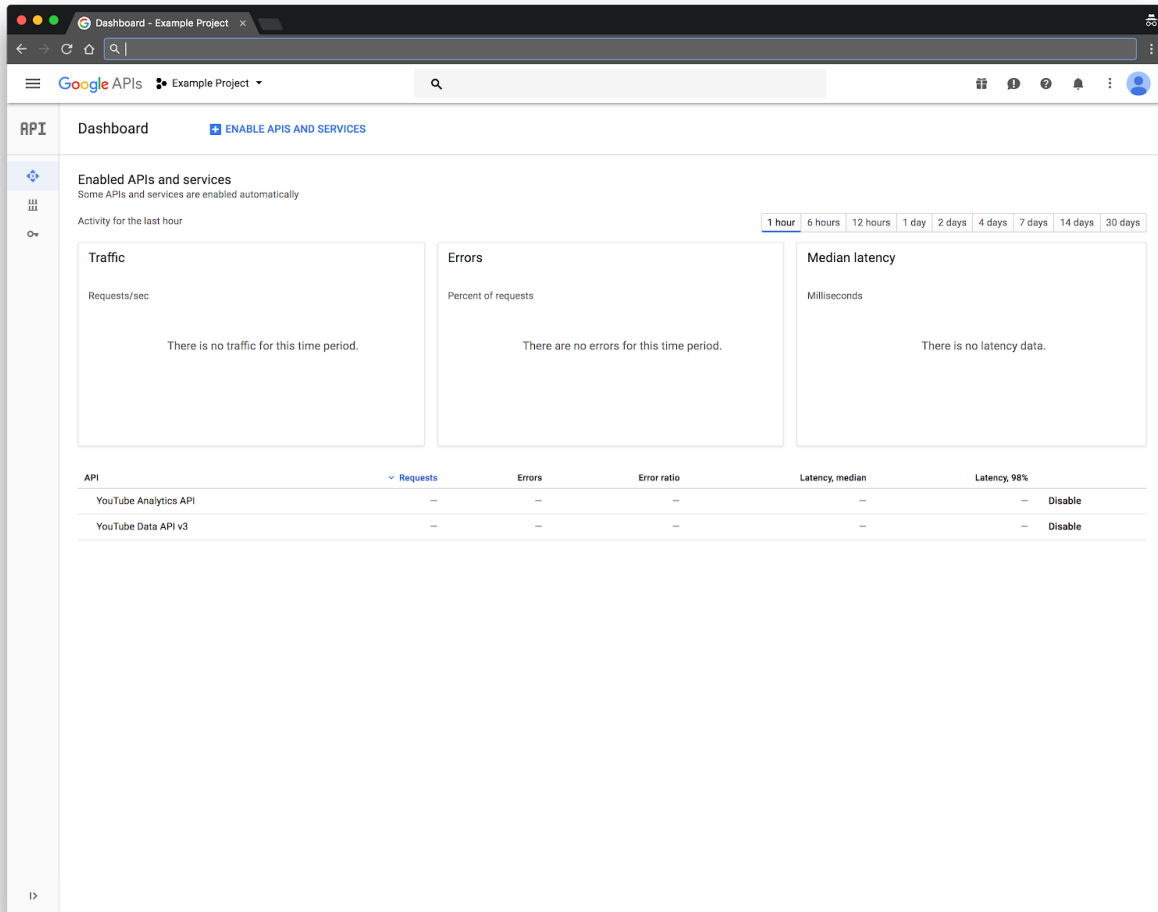


Select **“YouTube Data API v3”** and click **“Enable”**. Follow the previous steps and enable **“YouTube Analytics API”**



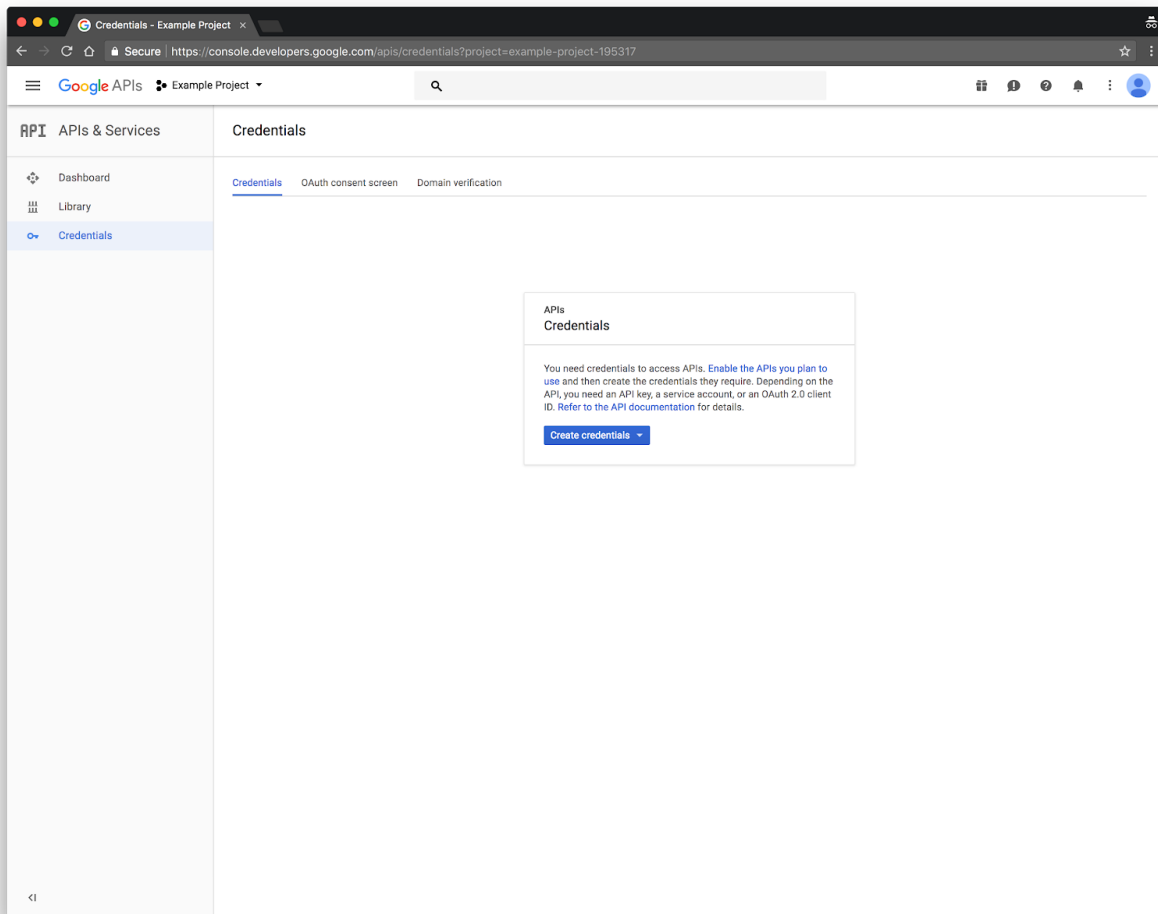


After enabling both “YouTube Data API v3” and “YouTube Analytics API”, Open the [dashboard](#) page and you should be able to see names of both the API’s under “**API**”

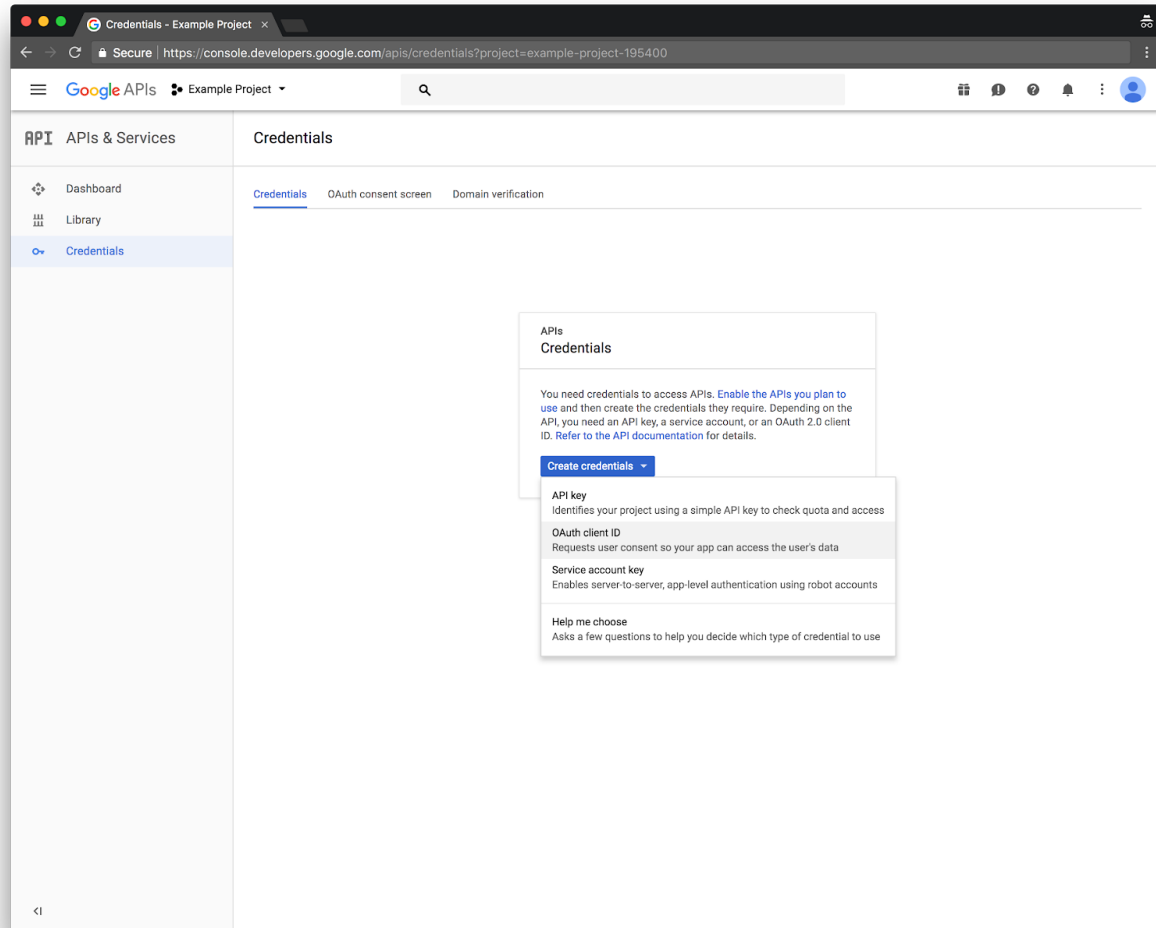


Create OAuth Client

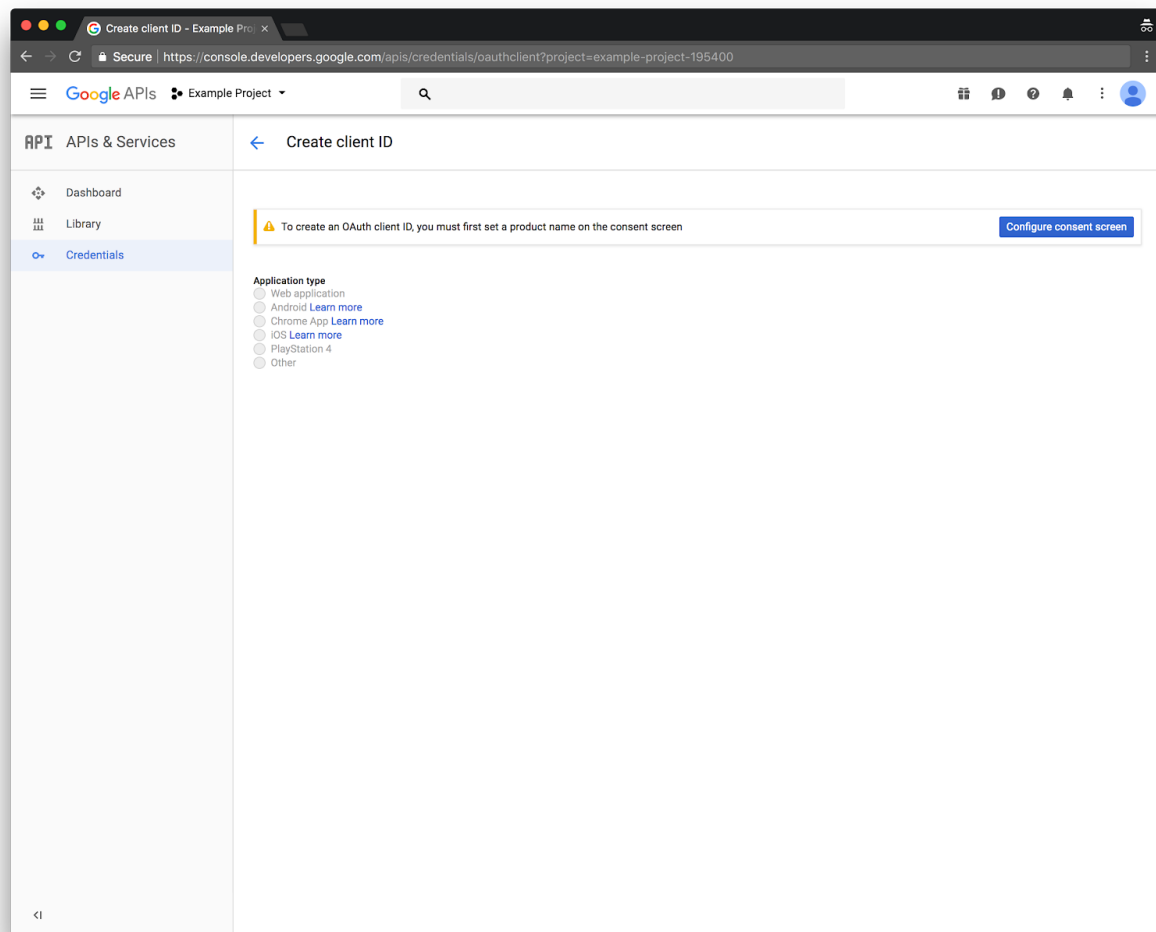
Open the [dashboard](#) and click on “**Credentials**” on the left sidebar.



Click on “**Create Credentials**” and select “**OAuth Client ID**” to create new service account.



When prompted, click **Configure consent screen**.



These values provide information to personal YouTube account owners on how information associated with their account will be used by your organization. Enter links to your relevant corporate policies and click **Save**.

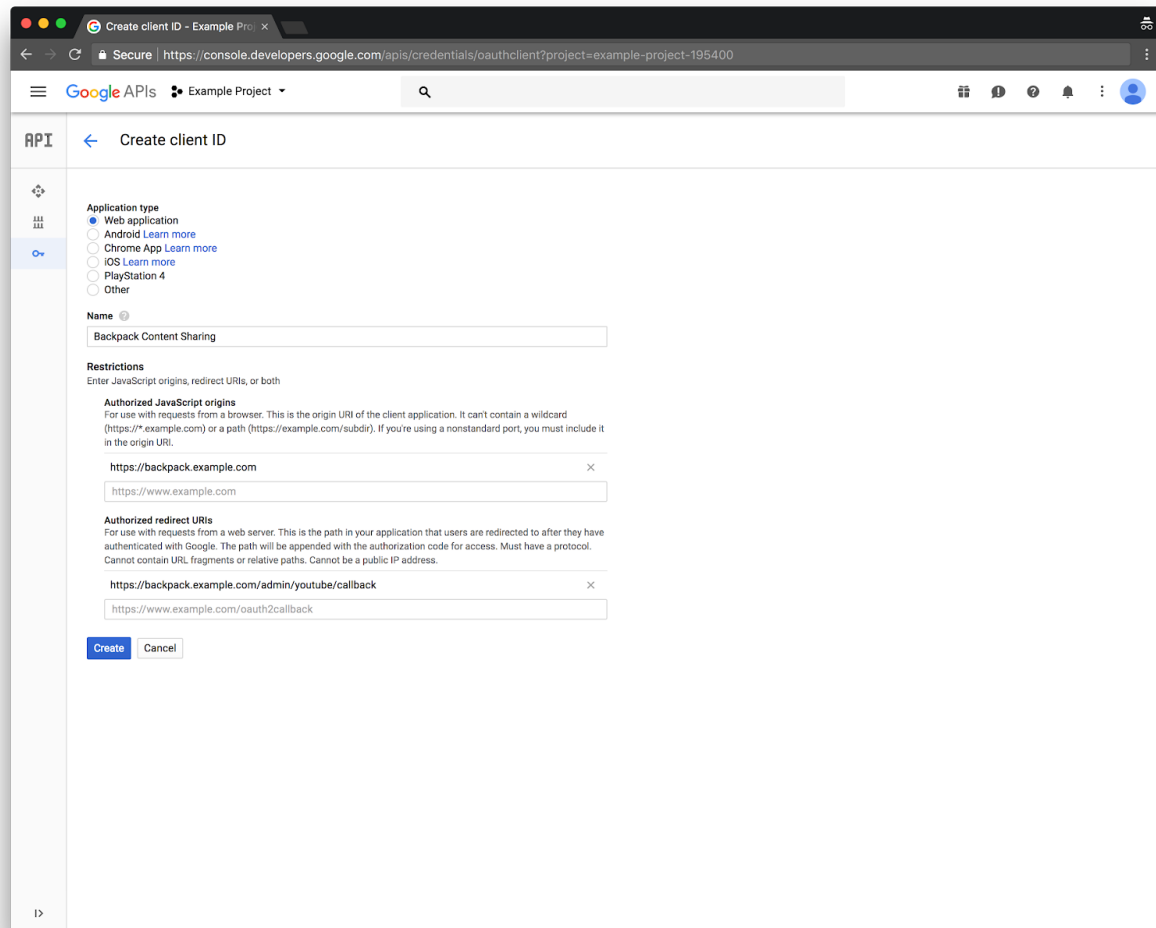
The screenshot shows the 'OAuth consent screen' configuration page in the Google API Console. The left sidebar contains the 'APIs & Services' menu with options for 'Dashboard', 'Library', and 'Credentials'. The 'Credentials' section is active, showing tabs for 'Credentials', 'OAuth consent screen', and 'Domain verification'. The 'OAuth consent screen' tab is selected, displaying a form with the following fields:

- Email address:** A dropdown menu showing 'example@gmail.com'.
- Product name shown to users:** A text field containing 'Backpack Content Sharing'.
- Homepage URL (Optional):** A text field containing 'https://example.com'.
- Product logo URL (Optional):** A text field containing 'http://www.example.com/logo.png'.
- Product logo:** A placeholder image with a note: 'This is how your logo will look to end users. Max size: 120x120 px'.
- Privacy policy URL:** A text field containing 'https://example.com/privacy.html'.
- Terms of service URL (Optional):** A text field containing 'https://example.com'.

At the bottom of the form are 'Save' and 'Cancel' buttons. To the right of the form, there is an illustration of a laptop and a smartphone displaying checkmarks, and a text box explaining: 'The consent screen will be shown to users whenever you request access to their private data using your client ID. It will be shown for all applications registered in this project. You must provide an email address and product name for OAuth to work.'

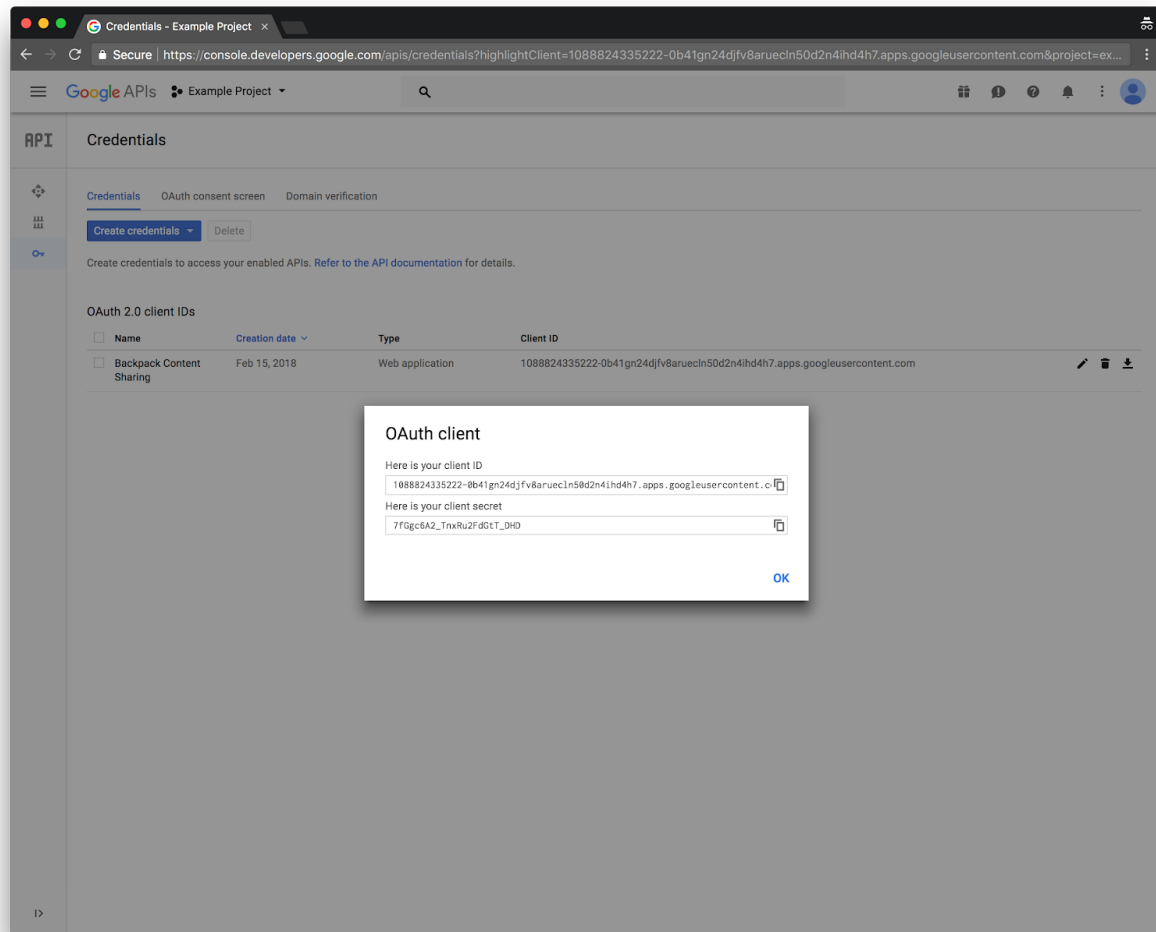
Choose the **Web Application** option and Create a client ID by entering the Backpack application URL and YouTube callback in the **Authorized JavaScript origins** and **Authorized redirect URIs** fields, and clicking **Create**.


If the Backpack application is hosted at `https://backpack.example.com` the Authorized redirect URI would be `https://backpack.example.com/admin/youtube/callback`

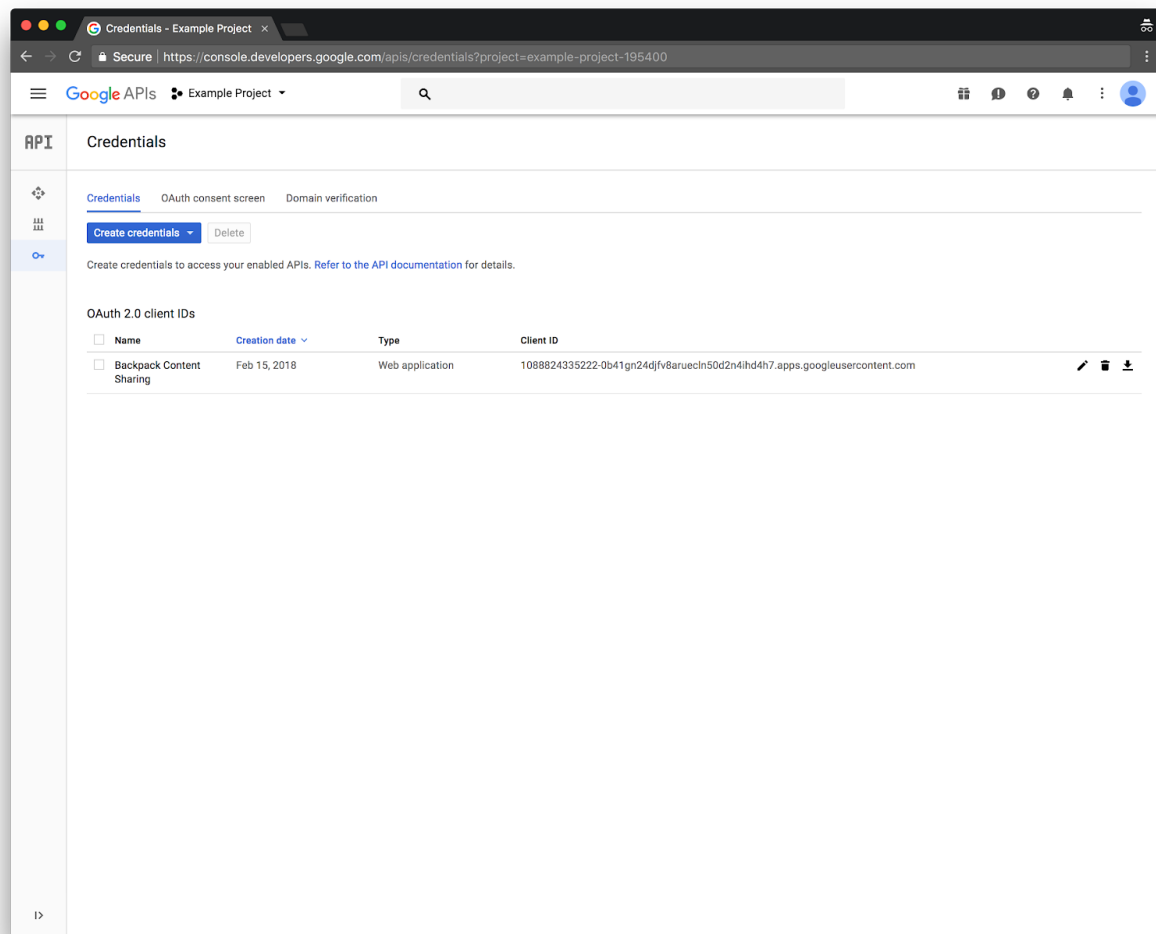


The screenshot shows the 'Create client ID' page in the Google Developers console. The browser address bar shows the URL `https://console.developers.google.com/apis/credentials/oauthclient?project=example-project-195400`. The page title is 'Create client ID'. On the left sidebar, 'API' is selected. The main content area has a left-hand navigation menu with icons for 'Application type', 'Name', 'Restrictions', and 'Authorized redirect URIs'. The 'Application type' section is active, showing radio buttons for 'Web application' (selected), 'Android', 'Chrome App', 'iOS', 'PlayStation 4', and 'Other'. Below this, the 'Name' field is labeled 'Backpack Content Sharing'. The 'Restrictions' section is titled 'Enter JavaScript origins, redirect URIs, or both'. It contains two subsections: 'Authorized JavaScript origins' and 'Authorized redirect URIs'. Under 'Authorized JavaScript origins', there is a text input field containing `https://backpack.example.com` and a button to add more origins. Under 'Authorized redirect URIs', there is a text input field containing `https://backpack.example.com/admin/youtube/callback` and a button to add more URIs. At the bottom of the form, there are 'Create' and 'Cancel' buttons.

Click **OK** to close the **OAuth Client** dialog.



Click the download icon |  | in the right column to download the OAuth Client JSON file.



If you open the downloaded JSON file in the text editor it should look similar to the following:



```
{"web":{"client_id":"1088824335222-0b41gn24djfv8aruecln50d2n4ihd4h7.apps.googleusercontent.com","project_id":"example-project-195400","auth_uri":"https://accounts.google.com/o/oauth2/auth","token_uri":"https://accounts.google.com/o/oauth2/token","auth_provider_x509_cert_url":"https://www.googleapis.com/oauth2/v1/certs","client_secret":"7fGgc6A2-TnxRu2Fd6tT_DH0","redirect_uris":["https://backpack.example.com/admin/youtube/callback"],"javascript_origins":["https://backpack.example.com"]}}}
```