

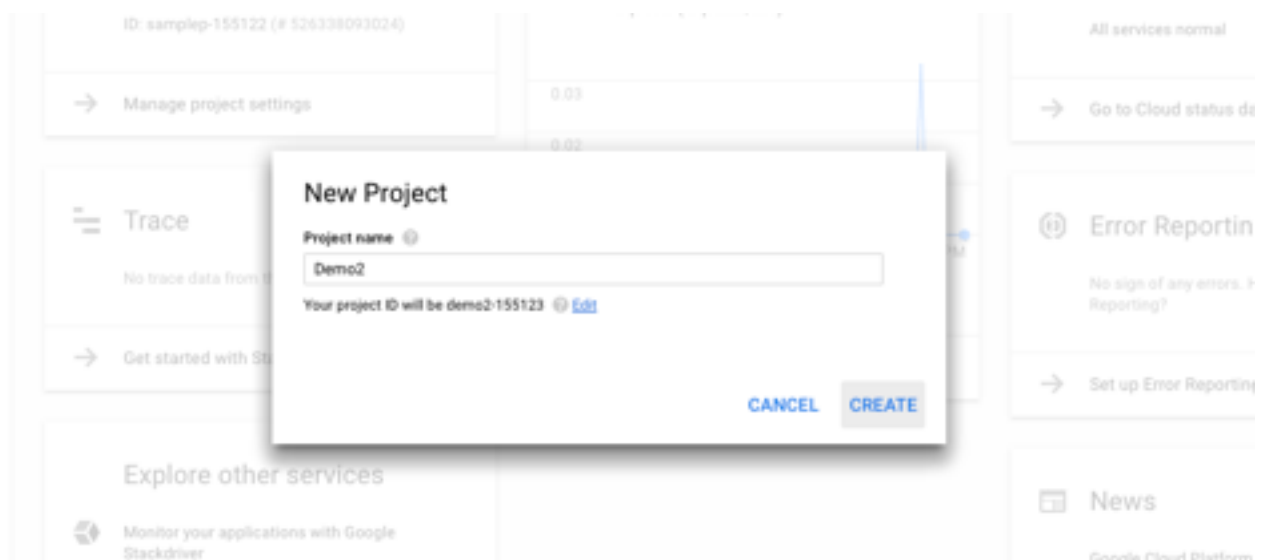
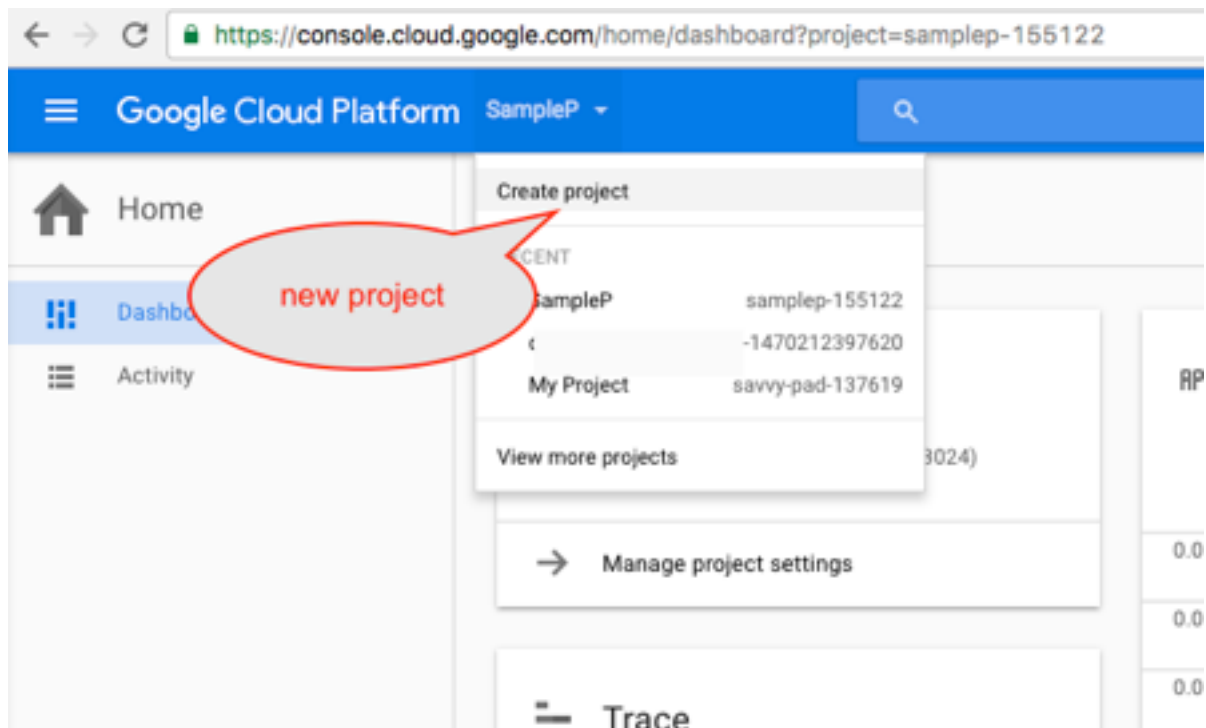
Google Configuration and System Setup

To use the system, you must have a valid Google Service Account that has Domain Wide Delegation enabled. And an OAuth 2.0 Client of the type: Service Account Client

Within the Google Admin Security settings, you must also authorize the OAuth Client, to manage the provisioning of your google groups and users.

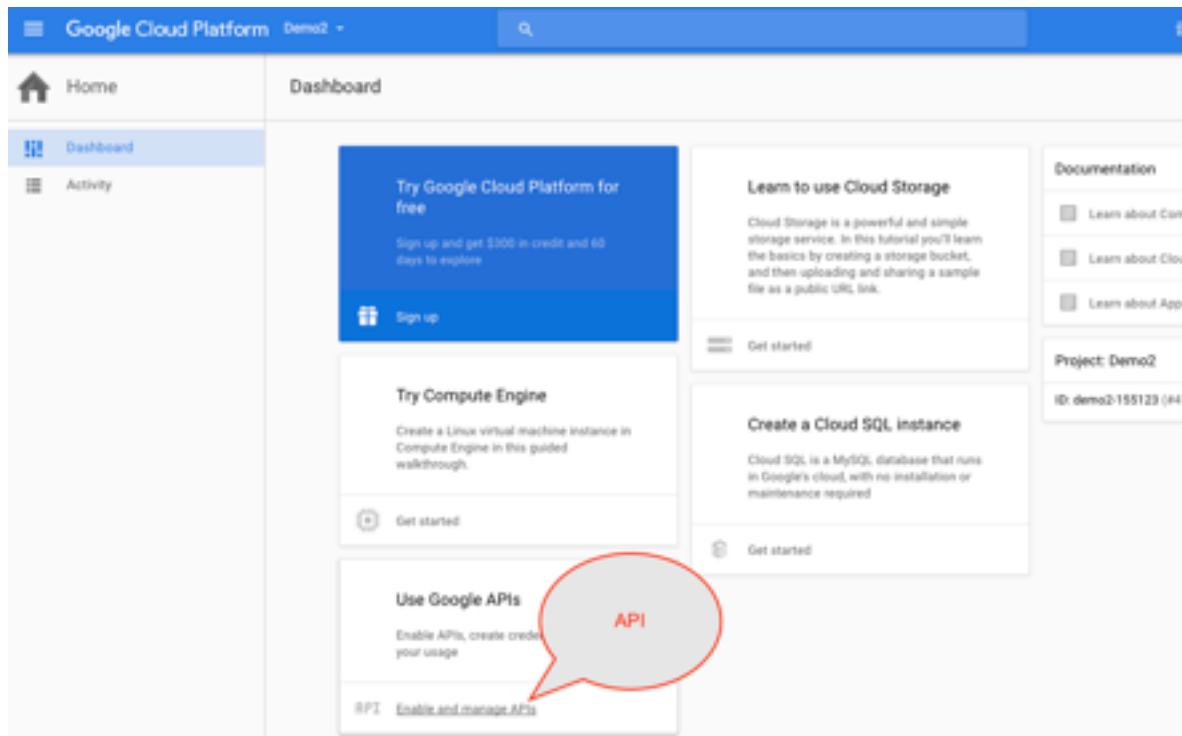
The steps related to this are outlined below. Screen shots were taken on January 9, 2017.

<https://console.cloud.google.com>



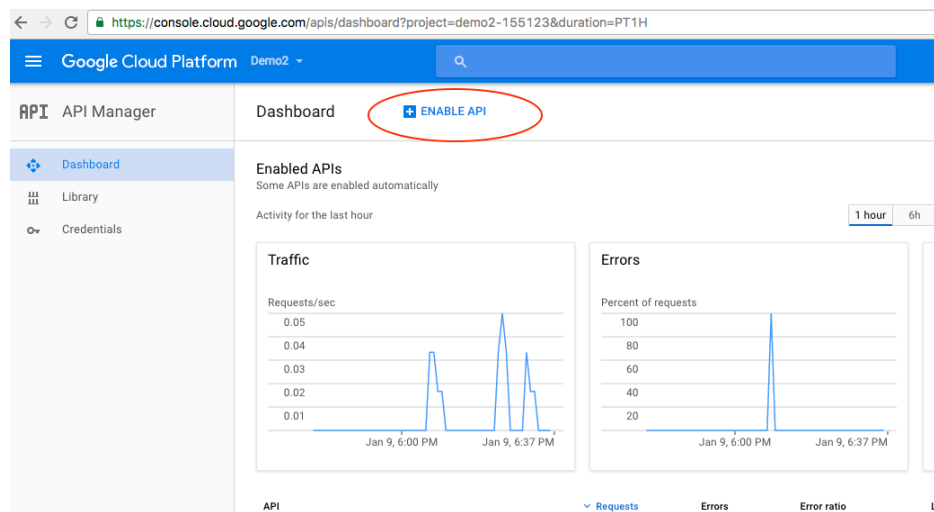
Go to APIs dashboard

<https://console.cloud.google.com/apis/dashboard?>



<https://console.cloud.google.com/apis/api/admin/overview>

Now select Enable API



<https://console.cloud.google.com/apis/library>

The screenshot shows the Google Cloud Platform API Manager Library page. The left sidebar contains the 'API Manager' section with links to 'Dashboard', 'Library', and 'Credentials'. The main content area is titled 'Library' and features a search bar. Below the search bar, there are several categories of APIs: 'Popular APIs', 'Google Cloud APIs', 'Google Maps APIs', 'Google Apps APIs', 'Mobile APIs', 'Social APIs', 'YouTube APIs', 'Advertising APIs', and 'Other popular APIs'. The 'Admin SDK' is highlighted with a red circle under the 'Google Apps APIs' category. A red speech bubble with the text 'click here' points to the 'Admin SDK' link.

Google Cloud Platform Demo2

API Manager

Library

Search all 100+ APIs

Popular APIs

Google Cloud APIs

- Compute Engine API
- BigQuery API
- Cloud Storage Service
- Cloud Datastore API
- Cloud Deployment Manager API
- Cloud DNS API
- More

Google Maps APIs

- Google Maps Android API
- Google Maps SDK for iOS
- Google Maps JavaScript API
- Google Places API for Android
- Google Places API for iOS
- Google Maps Roads API
- More

Google Apps APIs

- Drive API
- Calendar API
- Gmail API
- Sheets API
- Google Apps Marketplace SDK
- Admin SDK
- More

Mobile APIs

- Google Cloud Messaging
- Google Play Game Services
- Google Play Developer API
- Google Places API for Android

Social APIs

- Google+ API
- Blogger API
- Google+ Pages API
- Google+ Domains API

YouTube APIs

- YouTube Data API
- YouTube Analytics API
- YouTube Reporting API

Advertising APIs

Other popular APIs

Admin SDK

click here

Google Cloud Platform Demo2

API Manager

Admin SDK

ENABLE

About this API

Admin SDK lets administrators of enterprise domains to view and manage resources like user groups etc. It also provides audit and usage reports of domain.

Using credentials with this API

Accessing user data with OAuth 2.0

You can access user data with this API. On the Credentials page, client ID requests user consent so that your app can access user making your API call to Google. [Learn more](#)

read this. We are doing server-to-server.

2

Your app

User consent

User data

Server-to-server interaction

You can use this API to perform server-to-server interaction, for example between a web application and a Google service. You'll need a service account, which enables app-level authentication. You'll also need a service account key, which is used to authorize your API call to Google. [Learn more](#)

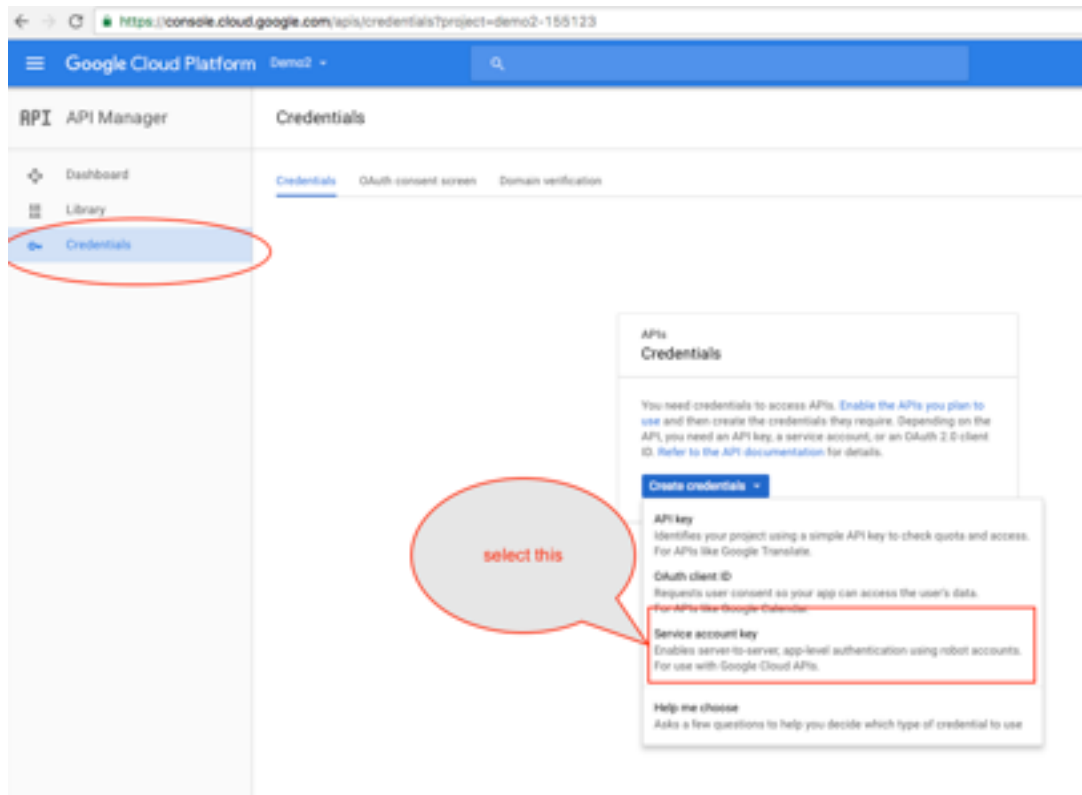
Your service

Authorization

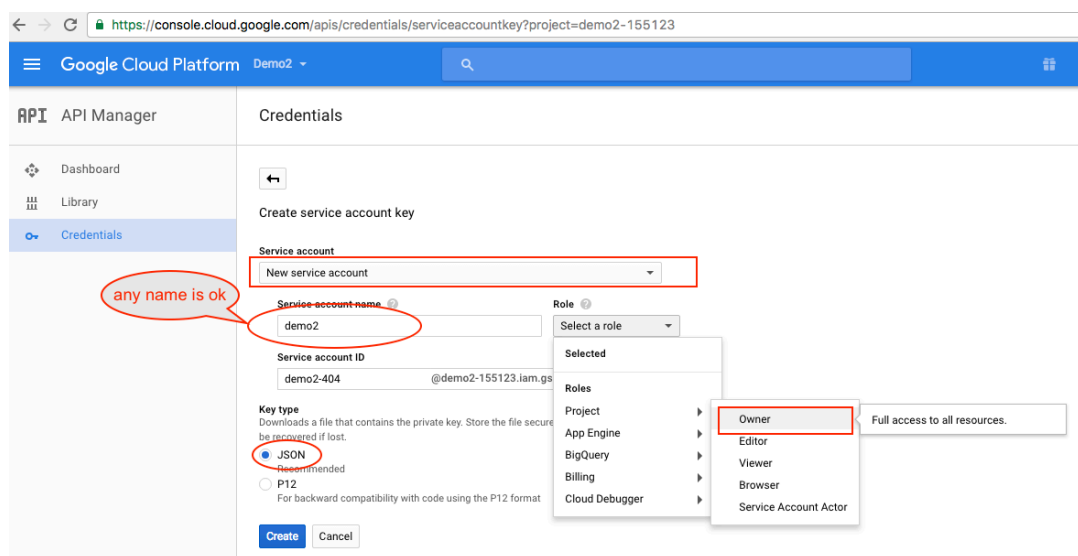
Google service

<https://console.cloud.google.com/apis/credentials>

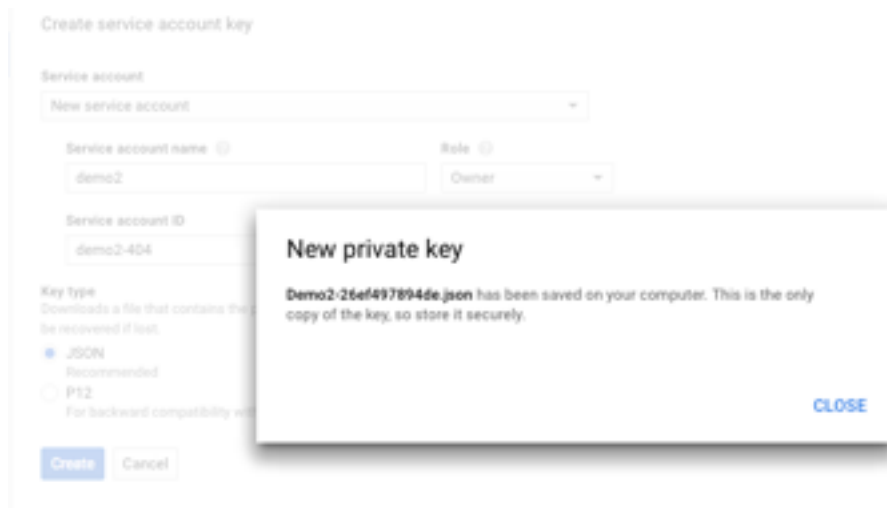
The service account will allow us to have full access to the google groups and users.



<https://console.cloud.google.com/apis/credentials/serviceaccountkey>



The Private JSON key will be downloaded. Save this to a special place. You will use this to configure the system.



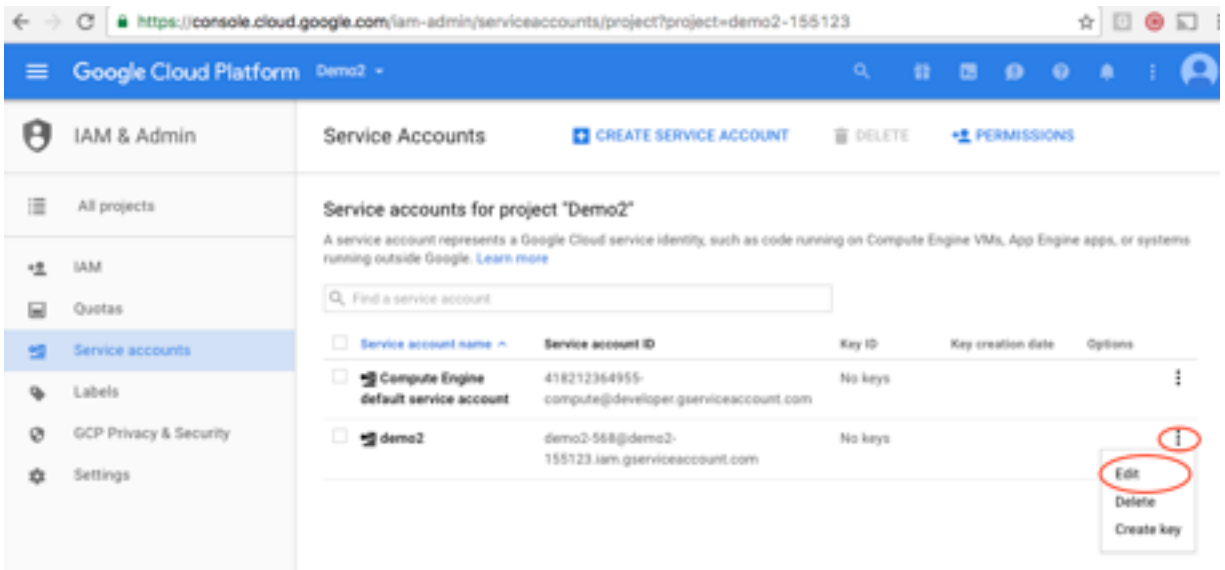
In this case, the file name is: Demo2-5884231b5df8.json *** make a note of this, because you will need to use this file to setup the system.

The service account is created. Now you need to enable DOMAIN WIDE DELEGATION (DWD) .

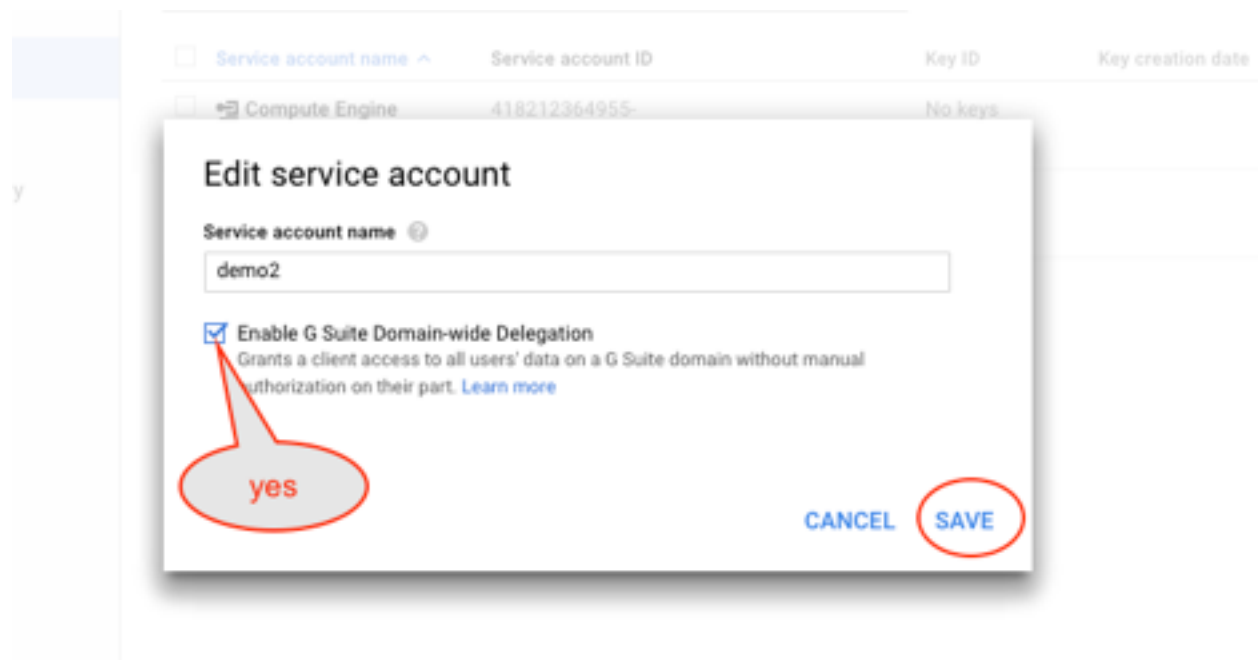


<https://console.cloud.google.com/iam-admin/serviceaccounts/project>

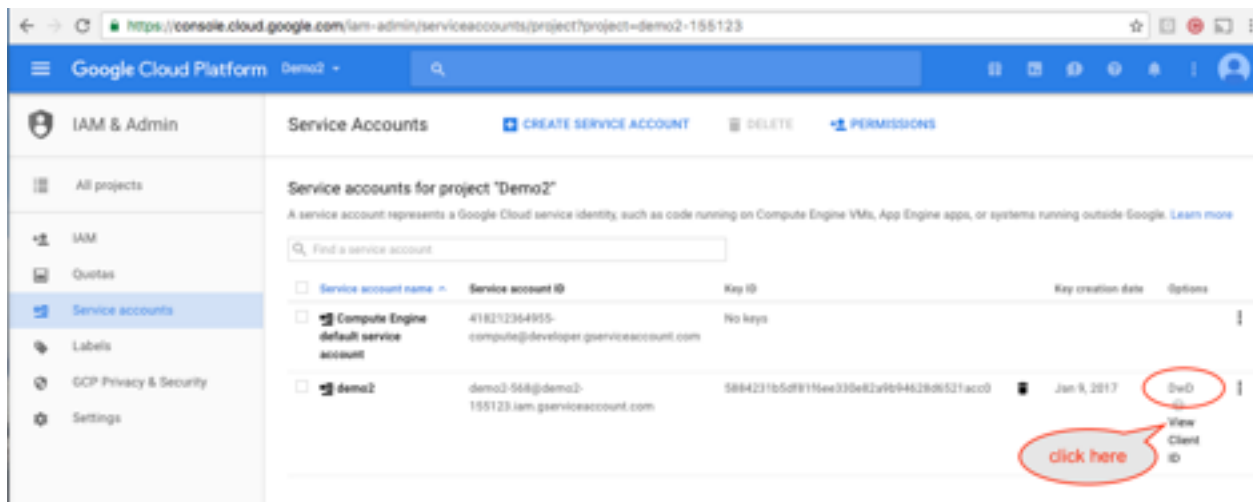
Now edit the project



enable DOMAIN WIDE DELEGATION (DWD) .



Notice now that the service account has Dwd Options turned on.

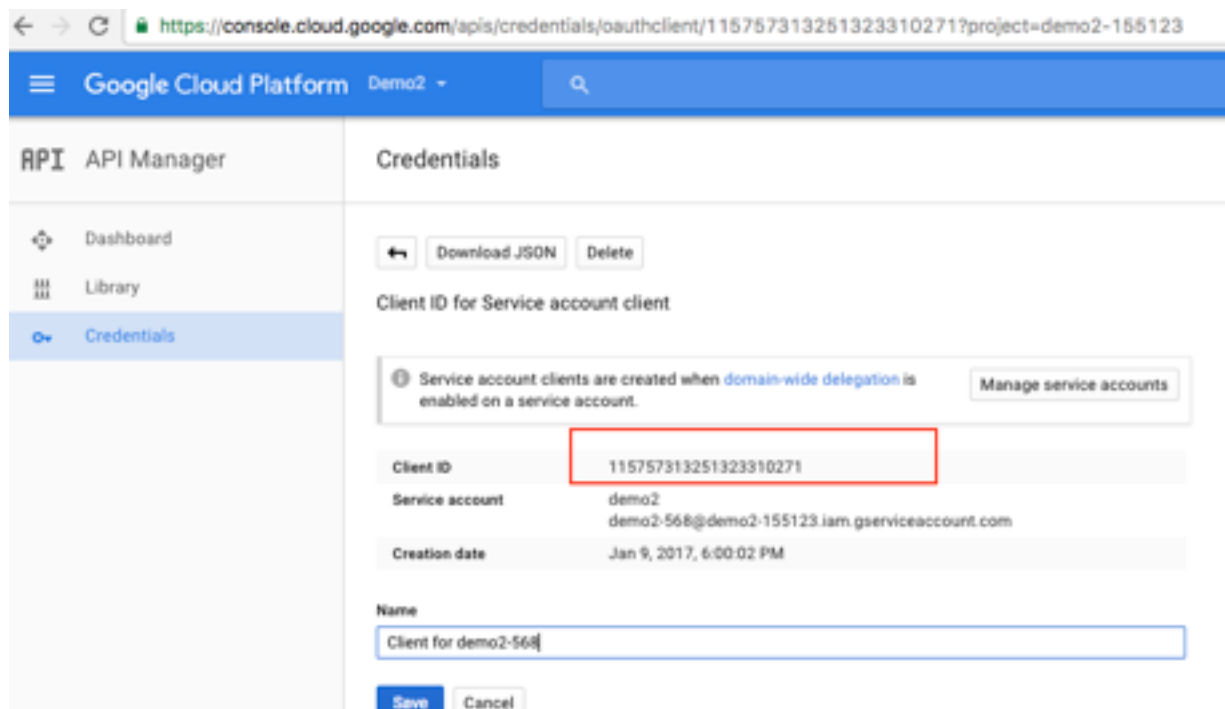


It also created a CLIENT ID. Click to view the client ID. We need the ID value.

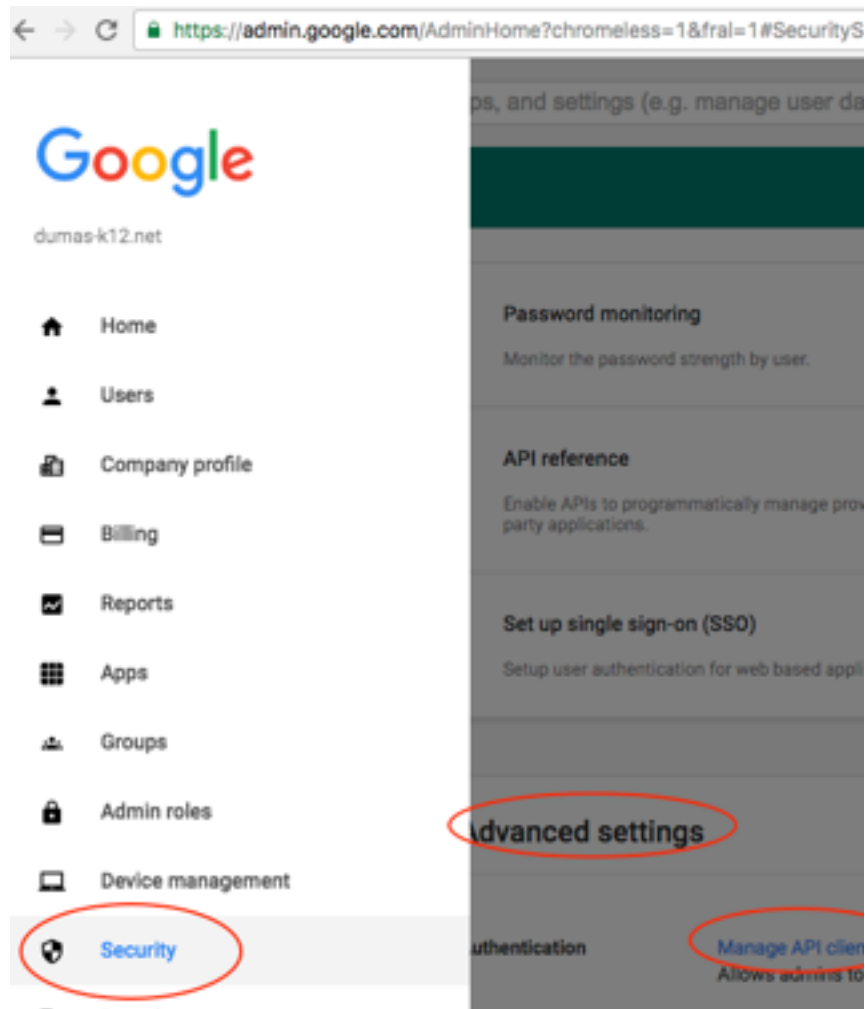
<https://console.cloud.google.com/apis/credentials/oauthclient/115757313251323310271>

The Client ID is: 115757313251323310271

The service account name is: demo2-568@demo2-155123.iam.gserviceaccount.com



Now you need go to the Google Admin, and get into Security - Advanced Settings to Manage the API client access for our client ID: 115757313251323310271



<https://admin.google.com/AdminHome?chromeless=1#OGX:ManageOauthClients>

Enter the Client ID into the Client Name text box.

And enter both of these into the API Scopes text box. Separated by a comma.

<https://www.googleapis.com/auth/admin.directory.group> , <https://www.googleapis.com/auth/admin.directory.user>

Then Authorize Button. They will then appear in the list below as Authorized.

The screenshot shows the Google Admin console interface. At the top, there's a search bar and a 'Security' header. Below that, the 'Manage API client access' section is visible. It includes a description of API clients and a table of authorized clients. The first client in the table is highlighted with a red box around its Client Name and API Scopes, and an 'Authorize' button is circled in red.

Client Name	One or More API Scopes	Authorize
1157573132513231027 Example: www.example.com	https://www.googleapis.com/auth/admin.directory.group Example: https://www.googleapis.com/auth/admin.directory.user (comma-delimited)	Authorize
106437452325144392958	View and manage the provisioning of groups on your domain https://www.googleapis.com/auth/admin.directory.group View and manage the provisioning of users on your domain https://www.googleapis.com/auth/admin.directory.user	
118027190457107259369	View and manage the provisioning of groups on your domain https://www.googleapis.com/auth/admin.directory.group View and manage the provisioning of users on your domain https://www.googleapis.com/auth/admin.directory.user	

The Google setup is now completed.

Now you need to Setup and configure the system. To do that follow these instructions.

Install the source code in your web root.

Create a mysql database and initialize it with the database schema in APP/SQL/DATABASE.sql **** this must be done before you do the next step below.

Make this writable directory 1 directory above your web root: gms_etc

This directory will be used to hold the system config.ini and your Google Service Account key file (the .json file you downloaded from google).

To setup the system, you need 3 things from Google (above).

admin user email: admin@demo.com

service account name: demo2-568@demo2-155123.iam.gserviceaccount.com

service account key file name: Demo2-5884231b5df8.json

Go to a browser and go to the default index.php page. Because you do not yet have a config.ini file, this index page will redirect you to the 1 time setup.php page. You will use this setup page to create a config.ini file that will be used by the system going forward.

[G M S]

GSuite Management System

The system does not have a config file. Use the form to create a config file. Then log in.

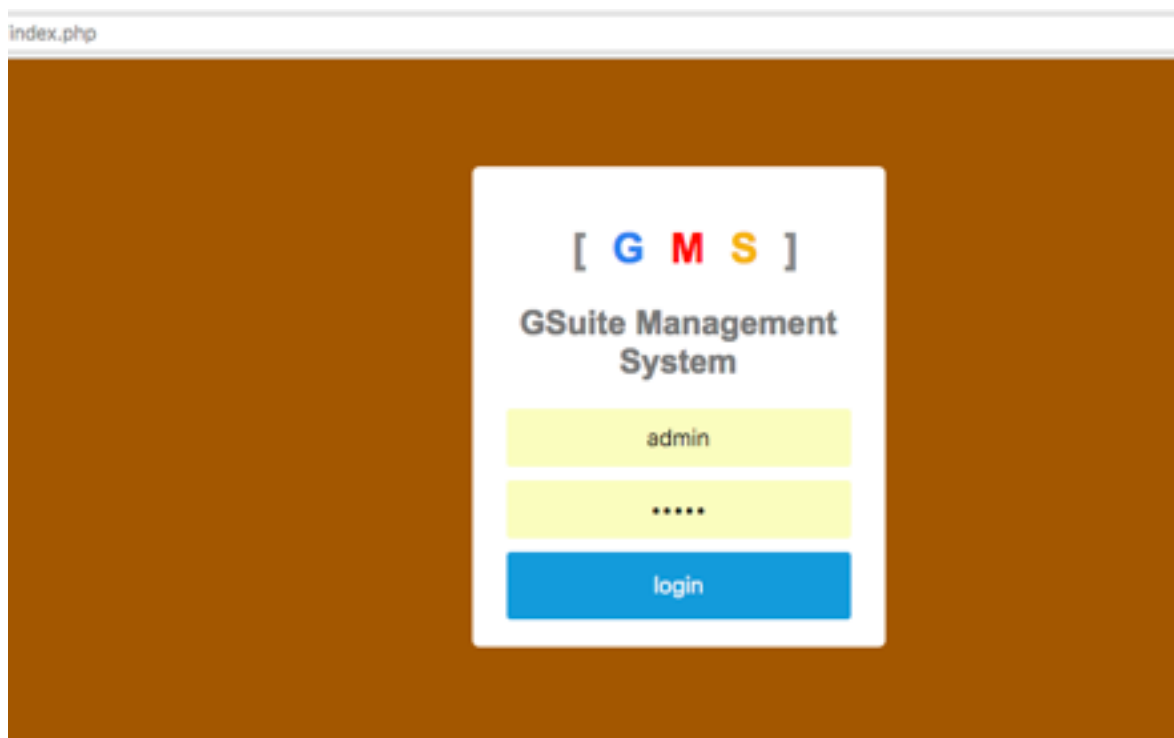
Database Host	localhost
Database Name	gms_dev
Database User	gms_dev
Database Password	*****
Login Seed	11111
Google Admin User Name	admin@demo.com
Google Service Account Name	demo2-568@demo2-155123.iam.gserviceaccount.com
Google Service Account Key File	Choose File Demo2-5884231b5df8.json

Submit

The setup page will create the config.ini file and store it in the directory ../gms_etc. It will also store the service account key file in that same directory.

The setup also creates 1 admin user in the database with a default password of: admin

You can now login:



To verify that your system is properly initialized, use the menu and navigate to:
Google Groups -> Standard Groups.

If your system is properly setup, then this page will show you a list of any existing google groups from your Google Admin account.

