

Cacoo Enterprise

Google Apps / Drive

Setup Guide

Nulab, Inc.
5th Edition
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Update History

Version	Date	Changes
1	January 06, 2016	First edition
2	March 01, 2019	Update screenshot, Add People API configuration
3	February 21, 2020	Update screenshots
4	March 10, 2021	Update screenshots
5	June 27, 2022	Update screenshots

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Setting Google Apps and Google Drive connection

This document contains the steps to connect Cacoo Enterprise with Google Apps (called Apps) and Google Drive (called Drive).

Note: About accounts to set connections

To prevent problems after certain user's resign or transfer, a designated account to create Client ID in Apps is recommended.

Note: About the URL used in Cacoo Enterprise

When Apps connection and Drive connection are used, Cacoo Enterprise requires the entire hostname including the domains (i.e. cacoo.example.com). Using any IP address URL will cause an error when registering to Google APIs Console.

The host name does not need to be opened to access from the external network but needs to be accessible internally.

Note: About [CACOO_URL]

Wherever you see [CACOO_URL] in this document, please replace it with your Cacoo Enterprise's URL.

Example of [CACOO_URL]:

<http://cacoo.example.com/>

<https://cacoo.example.com:8080/cacoo/>


Creating Client ID in Google APIs Console

On a web browser, sign in to Google with the designated Apps account. Open the Google Developer Console from the link below:

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

Click "CREATE PROJECT". (If you have projects already, you will see a list of projects on the Google Developer Console page.)

Dashboard


 To view this page, select a project.

[CREATE PROJECT](#)

Enter a project name (i.e. Cacoo Enterprise) , choose Organization and Location, and then press the [CREATE] button. (The project ID will be entered automatically. You may need to check a box to agree with Google's terms of service.)

Project name *

Cacoo Enterprise



Project ID: cacoo-enterprise-347708. It cannot be changed later. [EDIT](#)

Organization *

No organization



Select an organization to attach it to a project. This selection can't be changed later.

Location *









[BROWSE](#)

Parent organization or folder

CREATE

CANCEL

You will be directed to a project settings page. Select [OAuth consent screen] and choose [Internal] for "User Type", then press the [CREATE] button.

API APIs & Services	OAuth consent screen
<div><div> Enabled APIs & services</div><div> Library</div><div> Credentials</div><div> OAuth consent screen</div><div> Domain verification</div><div> Page usage agreements</div></div>	<p>Choose how you want to configure and register your app, including your target users. You can only associate one app with your project.</p> <h3>User Type</h3> <div><div><input checked="" type="radio"/> Internal </div><div><input type="radio"/> External </div></div> <p>Only available to users within your organization. You will not need to submit your app for verification. Learn more about user type</p> <p>Available to any test user with a Google Account. Your app will start in testing mode and will only be available to users you add to the list of test users. Once your app is ready to push to production, you may need to verify your app. Learn more about user type</p> <div>CREATE</div>

Enter the "Application name" shown to users (i.e. Cacao Enterprise) and "Authorized domains" as your Cacao's running top level domain (i.c. example.com) , then fill in other information. Click the [SAVE AND CONTINUE] button.

API

APIs & Services

Dashboard

Library

Credentials

OAuth consent screen

Domain verification

Page usage agreements

Edit app registration

1

 OAuth consent screen —

2

 Scopes —

3

 Summary

App information

This shows in the consent screen, and helps end users know who you are and contact you

App name *

Cacoo Enterprise

The name of the app asking for consent

User support email *

support@example.com

For users to contact you with questions about their consent

App logo

BROWSE

Upload an image, not larger than 1MB on the consent screen that will help users recognize your app. Allowed image formats are JPG, PNG, and BMP. Logos should be square and 120px by 120px for the best results.

App domain

To protect you and your users, Google only allows apps using OAuth to use Authorized Domains. The following information will be shown to your users on the consent screen.

Application home page

Provide users a link to your home page

Application privacy policy link

Provide users a link to your public privacy policy

Application terms of service link

Provide users a link to your public terms of service

Authorized domains ?

When a domain is used on the consent screen or in an OAuth client's configuration, it must be pre-registered here. If your app needs to go through verification, please go to the [Google Search Console](#) to check if your domains are authorized. [Learn more](#) about the authorized domain limit.

example.com

+ ADD DOMAIN

Developer contact information

Email addresses *

support@example.com

These email addresses are for Google to notify you about any changes to your project.

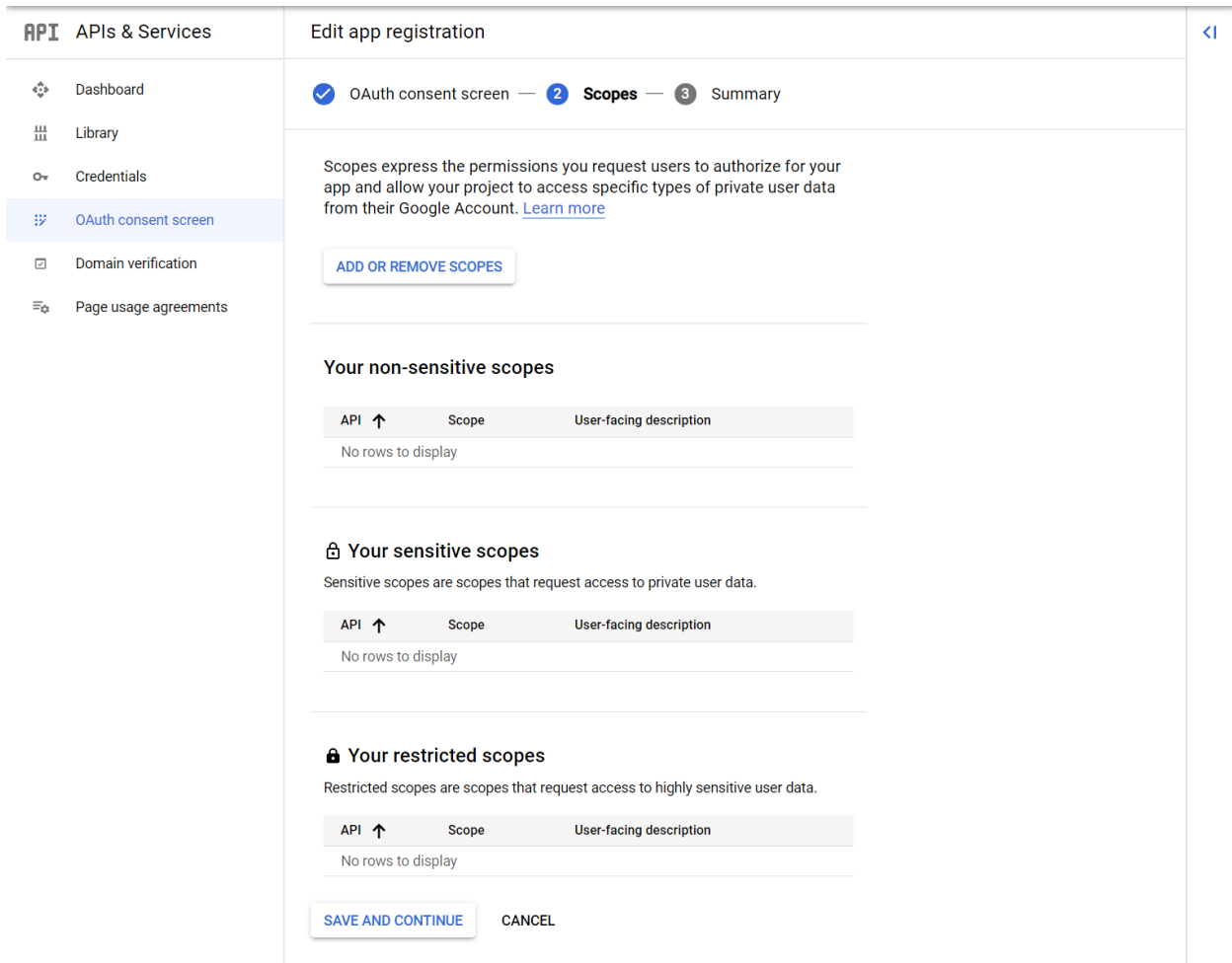
SAVE AND CONTINUE

CANCEL

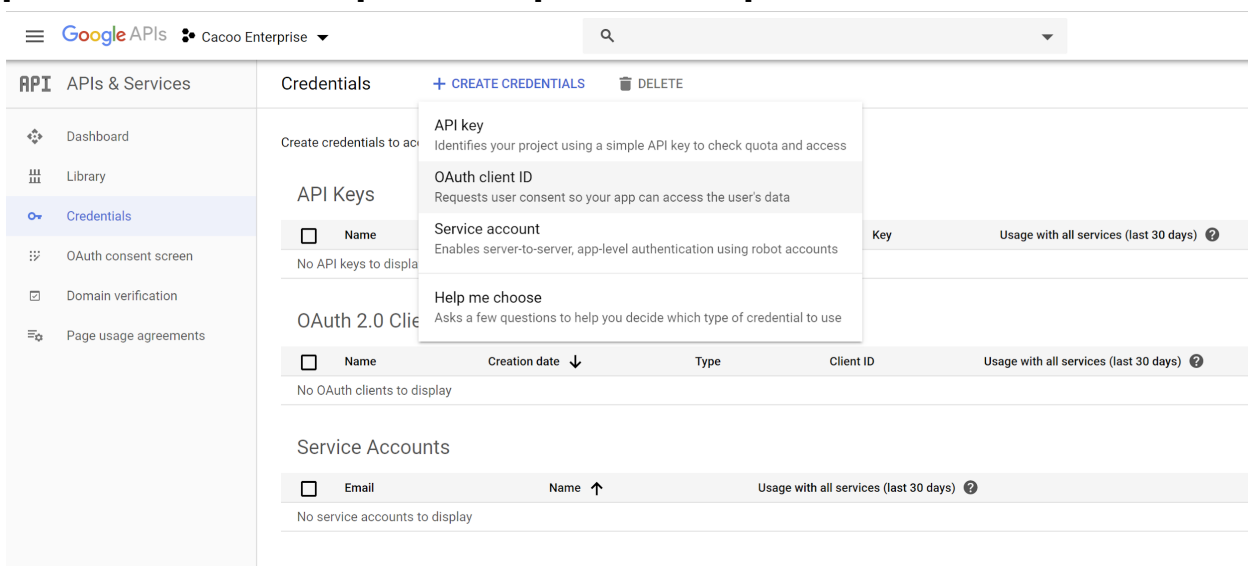
<

>





In the Scopes page, just click the [SAVE AND CONTINUE] button to finish the setting.



After saving the OAuth consent screen page, select [Credentials] in the left menu, click [+CREATE CREDENTIALS] and choose [OAuth Client ID]




The OAuth client ID configuration page will be shown.

 Enabled APIs & services Library Credentials OAuth consent screen Domain verification Page usage agreements

A client ID is used to identify a single app to Google's OAuth servers. If your app runs on multiple platforms, each will need its own client ID. See [Setting up OAuth 2.0](#) for more information. [Learn more](#) about OAuth client types.

Application type *

Web application 

Name *

Web client 1

The name of your OAuth 2.0 client. This name is only used to identify the client in the console and will not be shown to end users.



The domains of the URIs you add below will be automatically added to your [OAuth consent screen](#) as [authorized domains](#).

Authorized JavaScript origins

For use with requests from a browser

[+ ADD URI](#)

Authorized redirect URIs

For use with requests from a web server

URIs 1 *

<http://cacao.example.com/drive/>

URIs 2 *

<http://cacao.example.com/drive/install>

URIs 3 *

http://cacao.example.com/signin/google_oauth2_apps/callback[+ ADD URI](#)


Note: It may take 5 minutes to a few hours for settings to take effect

[CREATE](#)[CANCEL](#)




Please set it up as follows.

Application type	Web application
Authorized JavaScript origins	Leave empty
Authorized redirect URIs	Enter 3 URIs: [CACOO_URL]drive/ [CACOO_URL]drive/install [CACOO_URL]signin/google_oauth2_apps/callback

Press the [Create] button and the Client ID will be issued. Please keep this Client ID as you need it later.

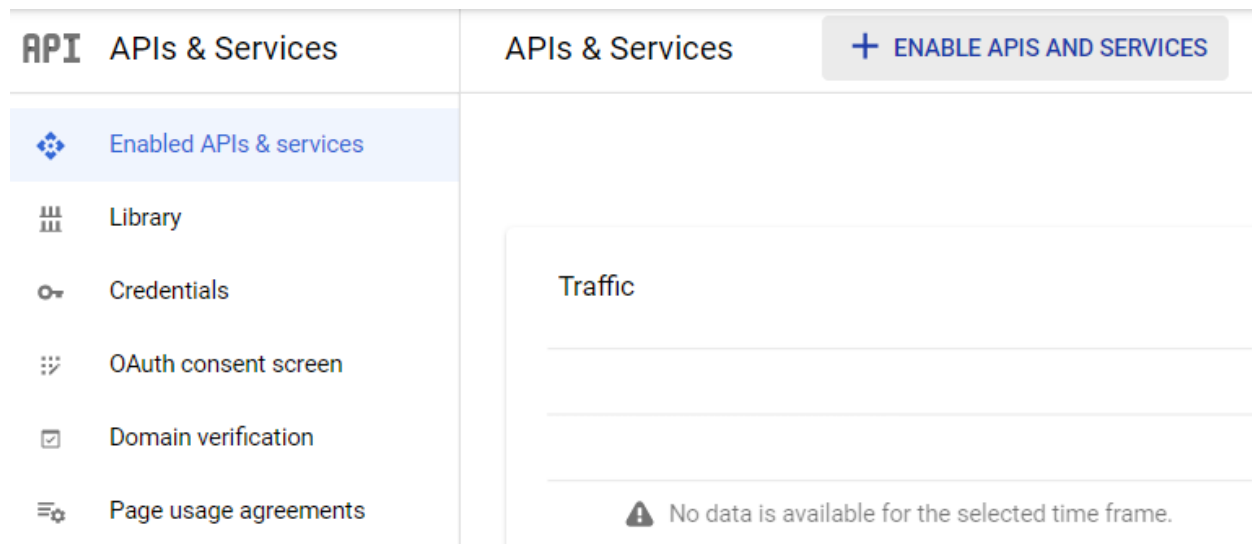
After go back to the dashboard page, click the right side  button in the OAuth 2.0 Client IDs list to download the JSON file.

OAuth 2.0 Client IDs

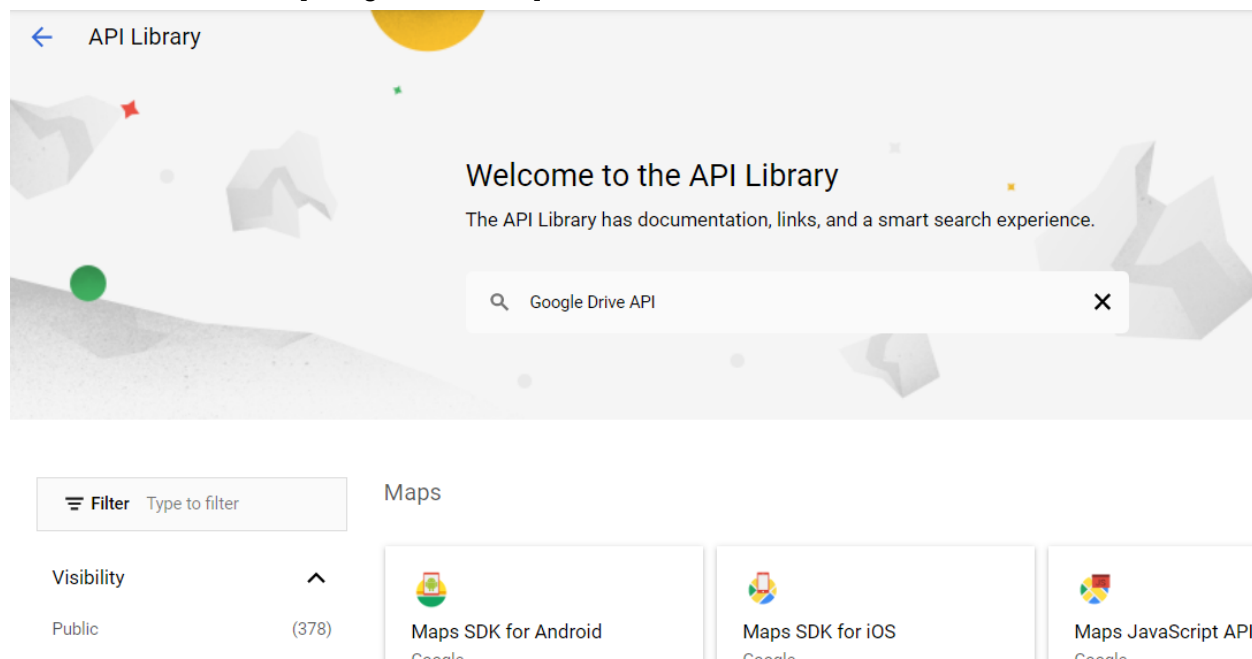
<input type="checkbox"/>	Name	Creation date ↓	Type	Client ID	Usage with all services (last 30 days) ?	
<input type="checkbox"/>	Web client 1	Feb 21, 2020	Web application	516478131378-gkq8...	0	  


Enabling API

Select [Enabled APIs & services] in the left menu and click [ENABLE APIS AND SERVICES].



Then search and click [Google Drive API].



Press the [ENABLE] button. Go back to the previous page by clicking the  button.



API Library



Google Drive API

Google

The Google Drive API allows clients to access resources from Google Drive

ENABLE

TRY THIS API

Type

APIs & services

Last updated

1/10/19, 5:34 AM

Overview

The Google Drive API allows clients to access resources from Google Drive.

About Google

In the same way as [Google Drive API], enable [Google People API].

Please confirm that you have the new APIs on the [Enabled APIs & services] page.

API

APIs & Services

Enabled APIs & services

Library

Credentials

OAuth consent screen

Domain verification

Page usage agreements

APIs & Services

+ ENABLE APIS AND SERVICES

Traffic

1.0/s

0.8/s

0.6/s

0.4/s

0.2/s

0

No data is available for the selected time frame.

Apr 24

May 01

May 08

May 15

Errors

No data is available for the selected time f

Apr 24

May 01

May 08

Filter

Filter

Name	↓ Requests	Errors (%)	Latency, median (ms)	Latency, 95% (ms)
Google Drive API				
People API				

Setting Google Drive API

In the [Enabled APIs & services] page, click [Google Drive API]. Then select the [DRIVE UI INTEGRATION] tab and set up as follows:

Application Name	Leave empty
Short Description	Leave empty
Long Description	Leave empty
Icons	
Application icon	Upload a file in the specified size
Document icon	Upload a file in the specified size
Drive integration	
Authentication	Check the box
Client ID	Enter the Client ID you've created
Additional Scopes	Enter 4 URLs below: https://www.googleapis.com/auth/userinfo.email https://www.googleapis.com/auth/userinfo.profile https://www.googleapis.com/auth/drive.file https://www.googleapis.com/auth/drive.install
Install URL	[CACOO_URL]drive/install
Open URL	[CACOO_URL]drive/
Default MIME Types	application/vnd.cacoo.diagram
Default File Extensions	Leave empty
Secondary MIME Types	Leave empty
Secondary File Extensions	Leave empty
Creating files	Check the box
New URL	[CACOO_URL]drive/
Document Name	Leave empty
Importing	Uncheck
Mobile browser support	Uncheck
Multiple file support	Uncheck
Shared drives support	Uncheck

After entering the above, press the [SUBMIT] button.

✚ Enabled APIs & services

☰ Library

🔑 Credentials

🔗 OAuth consent screen

☑ Domain verification

⚙ Page usage agreements

Drive UI Integration

Configure how your App appears in Google Drive.

Application Name (Optional)

Short Description (Optional) ?

Long Description (Optional) ?

Drive Integration

Configure how your App will integrate with Drive.

Authentication

- ☒
- Automatically show OAuth 2.0 consent screen when users open my application from Google Drive

Client ID *

174444116966-4v65bv5scd7d48lk42om6knia3j3qp1n.apps.googleusercontent.c...

Enter the Client ID for your application. This value must match the client ID of an OAuth 2.0 client ID configured in the API Credentials page for this project.

Additional Scopes (Optional)

https://www.googleapis.com/auth/userinfo.email ✕

https://www.googleapis.com/auth/userinfo.profile ✕

https://www.googleapis.com/auth/drive.file ✕

https://www.googleapis.com/auth/drive.install ✕

Enter the Drive OAuth 2.0 scope URLs for any Google API that you want your application to access. This scope URL can be found in the documentation for the Google API you want to use. If your application does not require access to any Google APIs, leave this field blank.

Install URL (Optional)

http://cacao.example.com/drive/install ?

This URL is used when you want to install this application in Google Drive.

Open URL *

http://cacao.example.com/drive/ ?

Default MIME Types (Optional)

application/vnd.cacao.diagram ✕ ?

Default File Extensions (Optional) ?

Secondary MIME Types (Optional) ?

Secondary File Extensions (Optional) ?

Creating files

- ☒
- Allow users to create new documents using this application.

New URL *

http://cacao.example.com/drive/

This URL is used when the user selects your application from the "New" menu in Google Drive.

Apps and Drive connection in Cacoo Enterprise

Sign in to Cacoo Enterprise with an administrator's account and open the [Basic settings] page in the Organization settings from the "Management" global menu.

To enable Apps connection, check the box next to "Allow to sign in with Google Apps account" and press the [Save changes] button.

The screenshot shows the 'Basic settings' page in the Cacoo Enterprise interface. The left sidebar contains a menu with options: Account, Picture, Password, Email, Applications, API Key, Developers, Import, ADMIN VIEW, Basic settings (highlighted), Members, SAML Login, External Connection, Management API Key, Samples, Exclusive Stencils, and Exclusive Templates. The main content area is titled 'Basic settings' and contains three sections: 'Notification emails', 'Sign in', and 'Security'. In the 'Notification emails' section, there are two input fields: '*From address' with the value 'from@example.com' and '*Reply-to address' with the value 'reply@example.com'. In the 'Sign in' section, there are three checkboxes: 'Allow to sign in with email address and password' (unchecked), 'Allow to sign in with Google Apps account' (checked), and 'Allow to sign in with SAML account' (unchecked). In the 'Security' section, there are four checkboxes: 'Allow users to change their email addresses' (unchecked), 'Allow users to change their password' (checked), 'Disable "Open diagram to public by URL"' (unchecked), 'Disable "Anyone can edit"' (unchecked), and 'Disable access from other tools except Cacoo' (unchecked). A blue 'Save changes' button is located at the bottom right of the main content area. A top navigation bar shows the Cacoo logo and a user profile icon with a dropdown menu containing 'Settings', 'Management' (highlighted), and 'Logout'.

Basic settings

Notification emails

*From address

*Reply-to address

Sign in

☐ Allow to sign in with email address and password

☒ Allow to sign in with Google Apps account

☐ Allow to sign in with SAML account

Security

☐ Allow users to change their email addresses

☒ Allow users to change their password

☐ Disable "Open diagram to public by URL" ?

☐ Disable "Anyone can edit" ?

☐ Disable access from other tools except Cacoo ?

[Save changes](#)

Next, select [External Connection] in the left menu.

External Connection

Google Apps setting

Domains permitted to access from

Enter multiple domains by separating them with comma (.). Permit all domains by leaving this field empty.

☐ Create user accounts when they first sign in
Administrators do not need to create accounts initially.
API Access file has not registered yet.
 client_secre...ent.com.json

Google Drive setting

☒ Use Google Drive connection

Domains permitted to access from

Enter multiple domains by separating them with comma (.). Permit all domains by leaving this field empty.

☐ Connect to Google Drive when user signs in
API Access file has not registered yet.
 client_secre...ent.com.json

Google Apps setting

To enable Apps connection, specify the JSON file that you have downloaded from the Client ID for the [Google Apps setting] as an API Access file.

Note: About “Create user accounts when they first sign in”

Check this box to invite Google Apps’s users to Cacoo smoothly. Their Cacoo accounts will be registered automatically when they first sign in from Google Apps to Cacoo.

Google Drive setting

To enable Drive connection, specify the JSON file that you have downloaded from the Client ID for the [Google Drive setting] as an API Access file.

Note: About “Connect to Google Drive when user signs in”

To force all Google Apps users to use Google Drive, please check this box. Users who have ever signed in with Google Apps will see the page to connect to Google Drive when they sign in.

After setting the above, click the [Save changes] button.

User's settings for connecting with Google Drive

After the administrator has integrated Cacoo with Google Drive, each user needs to connect their accounts with Google Drive.

Note: About “Connect to Google Drive when signed in”

If the administrator has chosen “Connect to Google Drive when signed in” for the external integration settings, users will see the Google Drive connection page when they sign in. They just need to follow the instructions on the page to complete the settings.

After signing into Cacoo, open the “Settings” global menu. When the Google Drive connection has been completed, you’ll see “Connected” next to “Connect to Google Drive”. If it shows “Not connected”, please click the “Connect” link and follow the instructions on the page to connect to Google Drive.

The screenshot displays the Cacoo user settings interface. At the top, a blue header bar contains the Cacoo logo 'C' on the left and the user's email 'user1@example.com' on the right. Below the header, a left sidebar lists navigation options: Account (highlighted), Picture, Password, Email, Applications, API Key, Developers, and Import. The main content area is titled 'Account' and includes input fields for 'Nickname' (filled with 'user1@example.com'), 'Language' (set to 'English'), and 'Time zone' (set to '(GMT) Greenwich Mean Time'). Below these fields is a section titled 'Connection to other services'. Under this section, 'Google Drive' is listed with a Google Drive icon, the text 'Not Connected', and a blue '(Connect)' link. A 'Save Changes' button is located at the bottom of the settings area. A dropdown menu is open next to the user's email, showing 'Settings' and 'Logout' options.