

Cacoo Enterprise

Google Apps / Drive

Setup Guide

Nulab, Inc.
2nd 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

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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 the certain user's resign or transfer, 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 the domains (i.e. cacoo.example.com). Using 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 need 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”. (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](#)

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

New Project

Project Name *

Cacoo Enterprise



Project ID: cacoo-enterprise-233202. It cannot be changed later. [EDIT](#)

Location *



No organization

[BROWSE](#)

Parent organization or folder

[CREATE](#)

[CANCEL](#)

You will be directed to a project settings page. Select [Credentials] in the left menu, click [Create credential] and choose [OAuth Client ID].



APIs & Services

Credentials

Dashboard

Library

Credentials

Credentials

OAuth consent screen

Domain verification

APIs
Credentials

You need credentials to access APIs. [Enable the APIs you plan to use](#) and then create the credentials they require. Depending on the API, you need an API key, a service account, or an OAuth 2.0 client ID. For more information, see the [authentication documentation](#).

Create credentials

API key
Identifies your project using a simple API key to check quota and access

OAuth client ID
Requests user consent so your app can access the user's data

Service account key
Enables server-to-server, app-level authentication using robot accounts

Help me choose
Asks a few questions to help you decide which type of credential to use

Press the [Configure Consent Screen] button and configure the agreement page that users will see when they try to connect to Apps and Drive.

[←](#) Create OAuth client ID

 To create an OAuth client ID, you must first set a product name on the consent screen

[Configure consent screen](#)

For applications that use the OAuth 2.0 protocol to call Google APIs, you can use an OAuth 2.0 client ID to generate an access token. The token contains a unique identifier. See [Setting up OAuth 2.0](#) for more information.

Application type

- ☐ Web application
- ☐ Android [Learn more](#)
- ☐ Chrome App [Learn more](#)
- ☐ iOS [Learn more](#)
- ☐ Other

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

API

APIs & Services

Dashboard

Library

Credentials

Credentials

OAuth consent screen


Domain verification

Before your users authenticate, this consent screen will allow them to choose whether they want to grant access to their private data, as well as give them a link to your terms of service and privacy policy. This page configures the consent screen for all applications in this project.

Verification status
Not published

Application name ?
The name of the app asking for consent
Cacoo Enterprise

Application logo ?
An image on the consent screen that will help users recognize your app
Local file for upload Browse



Support email ?
Shown on the consent screen for user support
admin@example.com

Scopes for Google APIs
Scopes allow your application to access your user's private data. [Learn more](#)
If you add a sensitive scope, such as scopes that give you full access to Gmail or Drive, Google will verify your consent screen before it's published.

The credential page will be shown. Please set up as follows.

Application type	Choose "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.

[←](#) Create OAuth client ID

For applications that use the OAuth 2.0 protocol to call Google APIs, you can use an OAuth 2.0 client ID to generate an access token. The token contains a unique identifier. See [Setting up OAuth 2.0](#) for more information.

Application type

- ☒ Web application
- ☐ Android [Learn more](#)
- ☐ Chrome App [Learn more](#)
- ☐ iOS [Learn more](#)
- ☐ Other

Name [?](#)

Web client 1

Restrictions

Enter JavaScript origins, redirect URIs, or both [Learn More](#)

Origins and redirect domains must be added to the list of Authorized Domains in the [OAuth consent settings](#).

Authorized JavaScript origins

For use with requests from a browser. This is the origin URL of the client application. It can't contain a wildcard (https://*.example.com) or a path (https://example.com/subdir). If you're using a nonstandard port, you must include it in the origin URL.

https://www.example.com

Type in the domain and press Enter to add it

Authorized redirect URIs

For use with requests from a web server. This is the path in your application that users are redirected to after they have authenticated with Google. The path will be appended with the authorization code for access. Must have a protocol. Cannot contain URL fragments or relative paths. Cannot be a public IP address.

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



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



http://cacao.example.com/signin/google_oauth2_apps/callback



https://www.example.com

Type in the domain and press Enter to add it

Create

Cancel

Then, click the [Download JSON] button to download the JSON file.

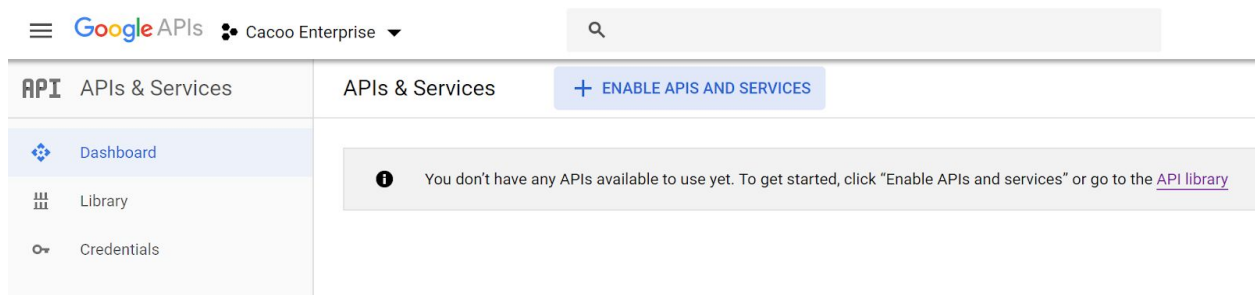
OAuth 2.0 client IDs

<input type="checkbox"/> Name	Creation date ▼	Type	Client ID	
<input type="checkbox"/> Web client 1	Mar 1, 2019	Web application	857503414999-ahuat437g9c91b23h1pcq10gqh6e5jf0.apps.googleusercontent.com	

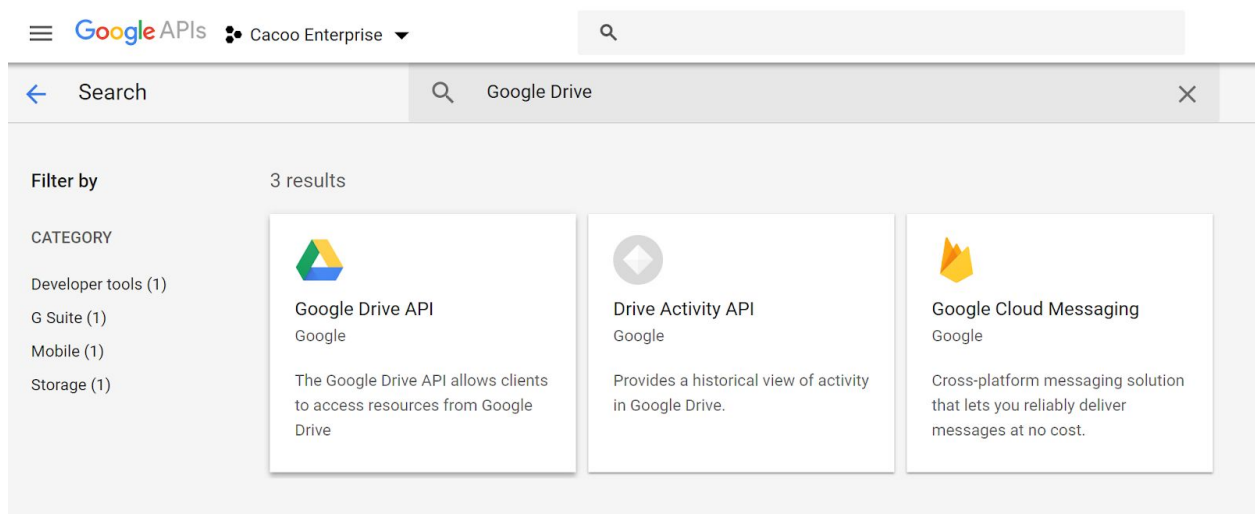
Download JSON


Enabling API

Select [Dashboard] 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].
Check you have 2 new APIs by clicking in the [Dashboard] page.



APIs & Services

APIs & Services

+ ENABLE APIS AND SERVICES

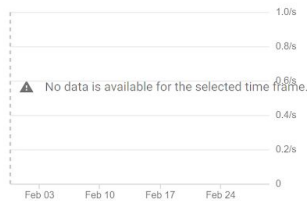
Dashboard

Library

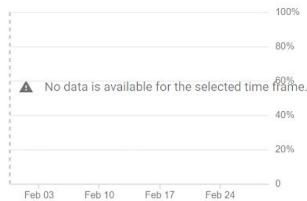
Credentials

1 hour 6 hours 12 hours 1 day 2 days 4 days 7 days 14 days 30 days

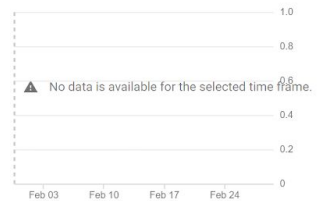
Traffic



Errors



Median latency



☐ Hide unused APIs

Filter

Name	Requests	Errors (%)	Latency, median (ms)	Latency, 95% (ms)
Google Drive API	0	0	0	0
People API	0	0	0	0

Setting Google Drive API

In the Dashboard page, click [Google Drive API]. Click [Drive UI Integration] menu 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

Multiple file support	Uncheck all boxes
-----------------------	-------------------

Press [Save Changes] button.

Google APIs

Cacoo Enterprise

APIs & Services

Google Drive API

Overview

Metrics

Quotas

Credentials

Drive UI Integration

Configuration

App ID: 857503414999

Configure how your App appears in Google Drive.

Application Name (Optional)

Short Description (Optional)

Long Description (Optional)

Icons

Provide icons to use for this application. You must provide at least one application icon. For the best quality, select icons in PNG format with a transparent background and select a properly-scaled icon for each size.

Application icon

Configure Preview

256 x 256

https://lh3.googleusercontent.com/-xnBx56eiN4w/XHjG9i0aZ3I/AAAAAAAAChI/u-GmJ

Select

128 x 128

https://lh3.googleusercontent.com/-acugYl5yzAA/XHjHAGc6vLI/AAAAAAAAChQ/7lJkw

Select

64 x 64

https://lh3.googleusercontent.com/-N8IHylVmOYg/XHjHCeBgDgl/AAAAAAAAChY/JL5k

Select

32 x 32

https://lh3.googleusercontent.com/-Vo_tyo7bMZk/XHjHEqo0azI/AAAAAAAAChg/YgTrI

Select

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Drive UI Integration

16 x 16

https://lh3.googleusercontent.com/-n7qGCysBo1o/XHjHG03YXHI/AAAAAAAAAACh/tqo

Select

Document Icon (Optional)

Configure

Preview

256 x 256

https://lh3.googleusercontent.com/-SWmJPjYe1E4/XHjKDz6SRMI/AAAAAAAAACig/Fen

Select

128 x 128

https://lh3.googleusercontent.com/-QxumbqtKRmw/XHjKGaWoO-I/AAAAAAAAACio/1eV

Select

64 x 64

https://lh3.googleusercontent.com/-CmIFXKwrnQQ/XHjKlpYc_zI/AAAAAAAAACiw/CGy4I

Select

32 x 32

https://lh3.googleusercontent.com/-w8KuKdHFUZw/XHjKK1Qpwil/AAAAAAAAACi4/rvH

Select

16 x 16

https://lh3.googleusercontent.com/-ImOJXOMXAzc/XHjKNLyWGbl/AAAAAAAAACjA/UDz

Select

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

Enter the Client ID for your application. You can configure a client ID on the "API Credentials" panel.

857503414999-ahuat437g9c91b23h1pcq10gqh6e5jf0.apps.googleusercontent.com

Overview

Metrics

Quotas

Credentials

Drive UI Integration

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

Enter the Client ID for your application. You can configure a client ID on the "API Credentials" panel.

857503414999-ahuat437g9c91b23h1pcq10gqh6e5jf0.apps.googleusercontent.com

Additional Scopes (Optional)

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.

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 (Optional) ?

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

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

Open URL ?

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

Default MIME Types (Optional) ?

application/vnd.cacao.diagram

×

text/plain

Overview

Metrics

Quotas

Credentials

Drive UI Integration

Default File Extensions (Optional) ?

txt

Secondary MIME Types (Optional) ?

text/plain

Secondary File Extensions (Optional) ?

txt

Creating files

☒ Allow users to create new documents using this application.

New URL

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

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

Document Name (Optional)

Enter a name for the type of document that your application creates. This name will be displayed in the "Create New" menu in Google Drive. If you do not specify a name here, your application name will be used instead.

Multiple file support

☐ Allow users to open multiple files using a single instance of this application.

Importing ?

☐ Allow users to open files that can be converted to a format that this app can open.

Mobile browser support

☐ This application can be launched and works properly in a mobile browser.

Team Drives support ?

☐ This application works properly with files in Team Drives.

Save Changes

Cancel

API API Manager

Overview

Credentials

Overview

https://lh3.googleusercontent.com/-pGVgMr_qzkw/VmFezB80tMI/AAAAAAAAAc/UK

Select

128 x 128

No image selected

Select

64 x 64

No image selected

Select

32 x 32

No image selected

Select

16 x 16

https://lh3.googleusercontent.com/-rYWKL3nn0vg/VmFe3K5v_rl/AAAAAAAAAAo/qOyI

Select

Document Icon (Optional)

Configure

Preview

256 x 256

No image selected

Select

128 x 128

No image selected

Select

64 x 64

No image selected

Select

32 x 32

No image selected

Select

16 x 16

No image selected

Select

API API Manager

Overview

Credentials

Overview

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

Enter the Client ID for your application. You can configure a client ID on the "API Credentials" panel.

xxxxxxxxxxxxxxxxxxxxxxxxxxxxx.apps.googleusercontent.com

Additional Scopes (Optional)

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.

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 (Optional) ?

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

http://cacao.example.com:19900/cacao/drive/install

<div>API API Manager</div> <div><div>Overview</div><div>Credentials</div></div>	<div>Overview</div> <div><div>Open URL ?</div><div>http://cacoo.example.com:19900/cacoo/drive/</div></div> <div><div>Default MIME Types (Optional) ?</div><div><div>application/vnd.cacoo.diagram</div><div>text/plain</div></div></div> <div><div>Default File Extensions (Optional) ?</div><div>txt</div></div> <div><div>Secondary MIME Types (Optional) ?</div><div>text/plain</div></div> <div><div>Secondary File Extensions (Optional) ?</div><div>txt</div></div> <div><div>Creating files</div><div><div><input checked="" type="checkbox"/> Allow users to create new documents using this application.</div><div><div>New URL</div><div>This URL is used when the user selects your application from the "New" menu in Google Drive.</div><div>http://cacoo.example.com:19900/cacoo/drive/</div></div><div><div>Document Name (Optional)</div><div>Enter a name for the type of document that your application creates. This name will be displayed in the "Create New" menu in Google Drive. If you do not specify a name here, your application name will be used instead.</div><div></div></div></div></div> <div><div>Multiple file support</div><div><input type="checkbox"/> Allow users to open multiple files using a single instance of this application.</div><div><div>Importing ?</div><div><input type="checkbox"/> Allow users to open files that can be converted to a format that this app can open.</div></div><div><div>Mobile browser support</div><div><input type="checkbox"/> This application can be launched and works properly in a mobile browser.</div></div><div><div>Save Changes</div><div>Cancel</div></div></div>
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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.

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

Organization's administrator
Cacoo

Basic settings
External Connection
Organization member
Samples
Exclusive Stencils
Exclusive Templates
License
All projects in organization
All diagrams in organization

Basic settings

Theme color

Theme color selection: 7 colored circles (teal, pink, black, orange, green, purple, blue).

Notification emails

*From address: from@example.com

*Reply-to address: reply-to@example.com

signin

☐ Allow to sign in with email address and password

☒ Allow to sing in with Google Apps 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 been already registered.
[Change](#)

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 been already registered.
[Change](#)

[Save changes](#)

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.

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 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.

Click the [Save changes] button.

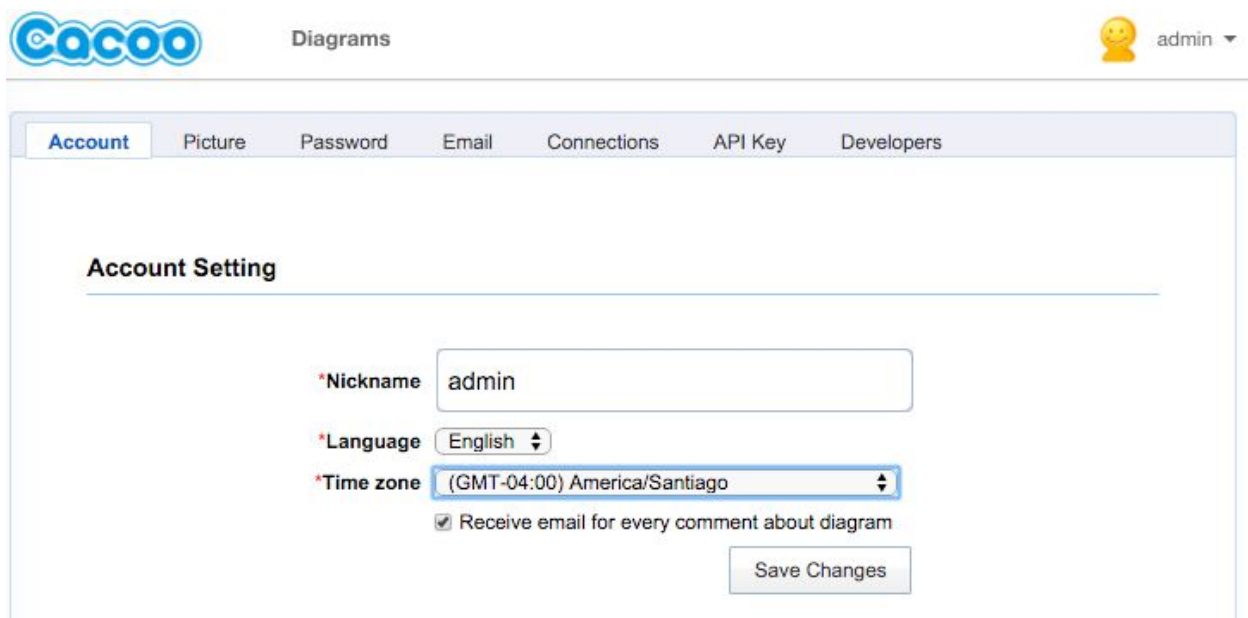
User's settings for connecting with Google Drive

After the administrator 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 in to Cacoo, open the “Settings” tab. 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 “Connect” link and follow the instructions on the page to connect to Google Drive.



The screenshot shows the Cacoo web application interface. At the top left is the Cacoo logo. To its right is the word "Diagrams". On the top right is a user profile icon with the text "admin" and a dropdown arrow. Below the top bar is a navigation menu with tabs: "Account" (selected), "Picture", "Password", "Email", "Connections", "API Key", and "Developers". The main content area is titled "Account Setting" and contains the following fields:

- *Nickname: A text input field containing "admin".
- *Language: A dropdown menu showing "English".
- *Time zone: A dropdown menu showing "(GMT-04:00) America/Santiago".
- A checkbox labeled "Receive email for every comment about diagram" which is checked.
- A "Save Changes" button.