



OAUTH 2 CONFIGURATION

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OAuth 2 is an authentication and security procedure created by Google that is used by Esna products to integrate with Google's applications, such as Gmail.

This document is provided as a guideline to setting up OAuth 2 for use with Esna applications.

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OAUTH 2 CONFIGURATION

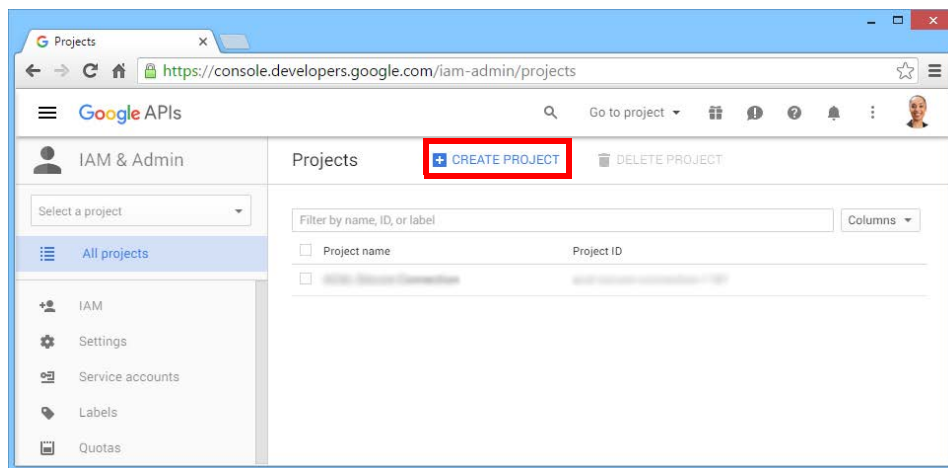
Install and configure OAuth2.0

OAuth 2.0 provides secure user authentication and is required for Gmail to access the messaging servers.

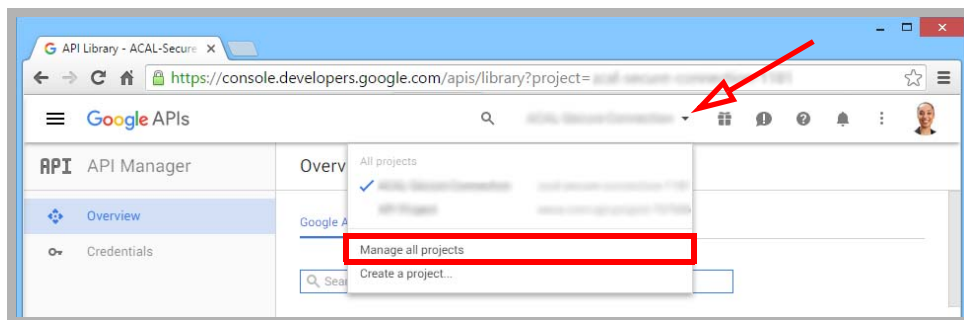


OAuth 2.0 Setup

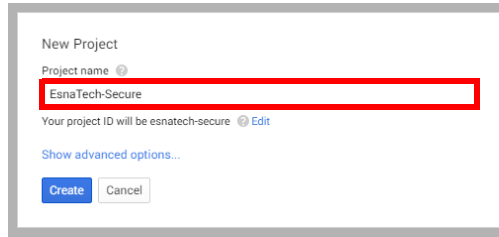
1. Open a web browser and go to <https://console.developers.google.com>. Login using your Google credentials.
2. From the Google Developers Console dashboard, click **Create project**.



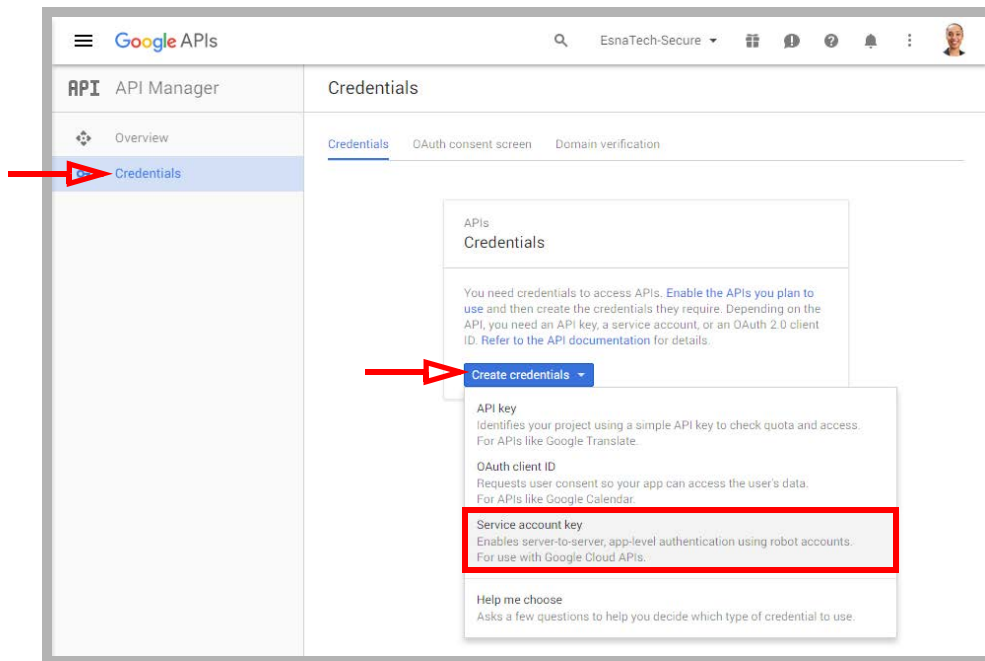
Note: If you are already logged into a project, click the project selector menu and choose **Manage all projects**.



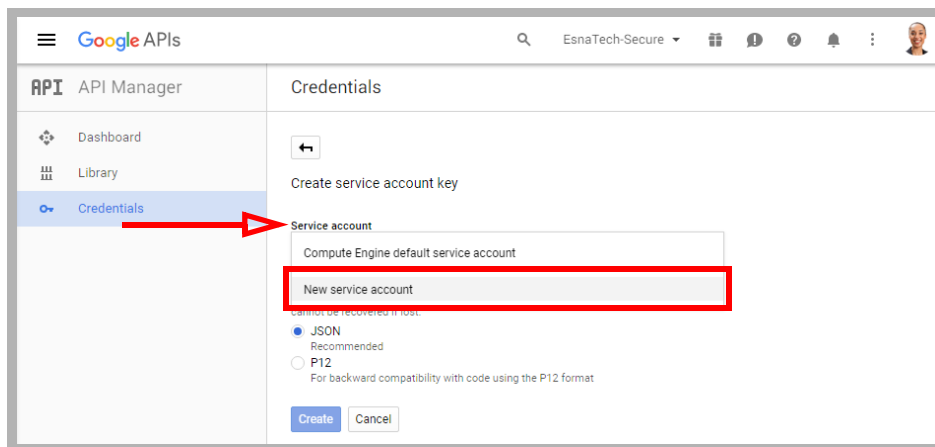
3. Give the new project a name, then click **Create**.



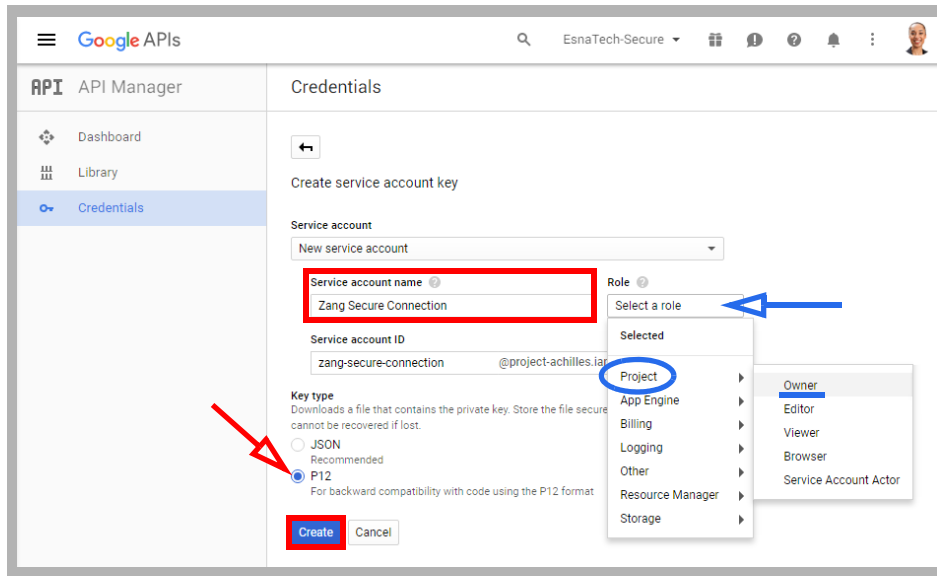
4. Select **Credentials > Create credentials**, then choose **Service account key**.



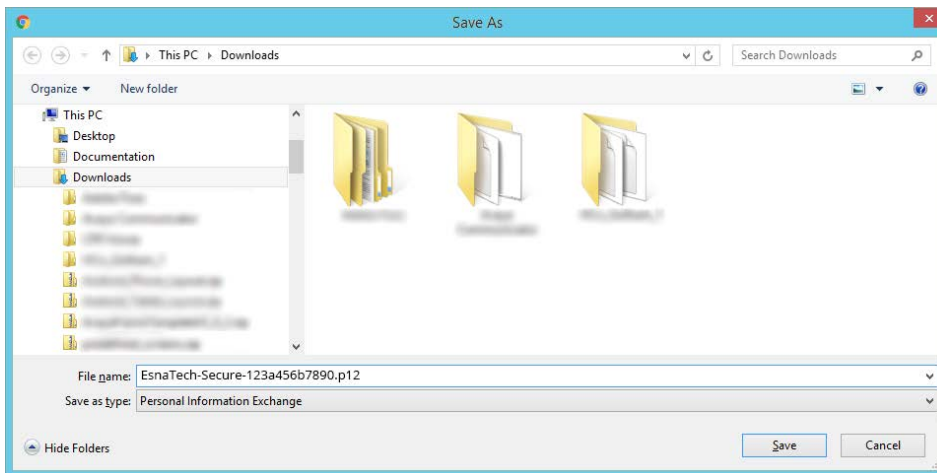
5. Choose **New service account** from the dropdown menu.



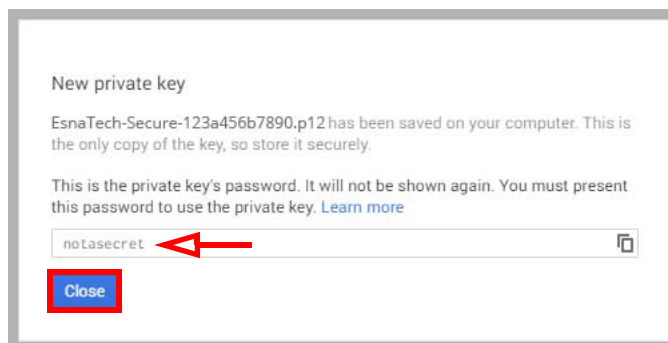
- Give the connection a name and enable the option for **P12**. Under **Role**, select **Project > Owner**. When ready click **Create**.



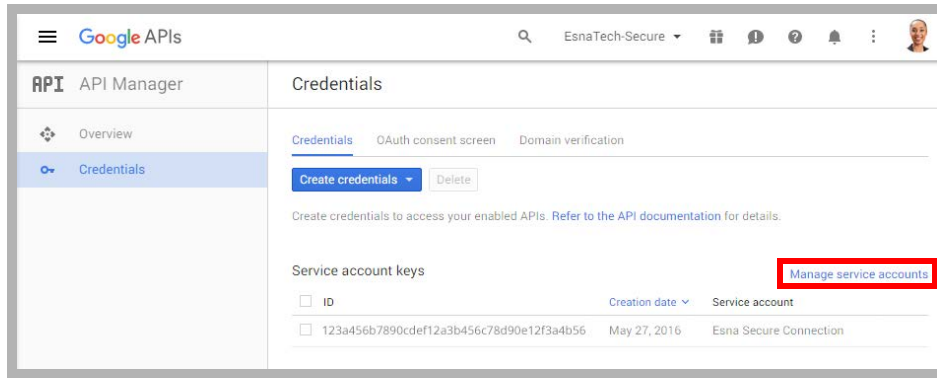
- The project file will be created with a .p12 extension. By default, the file will be saved to the **Downloads** folder for the current user. Copy the file to both the **C:\UC\UCSE** and **C:\UC\IMAPTSE** folders. (Change the path accordingly if your program is installed on a different drive.)



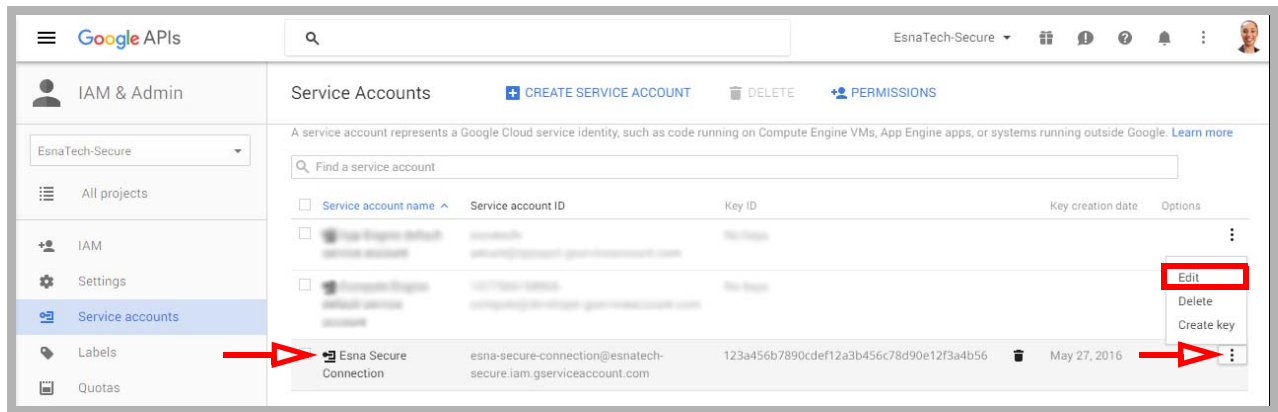
- Record the Private key password (**notasecret**) and click **Close**.



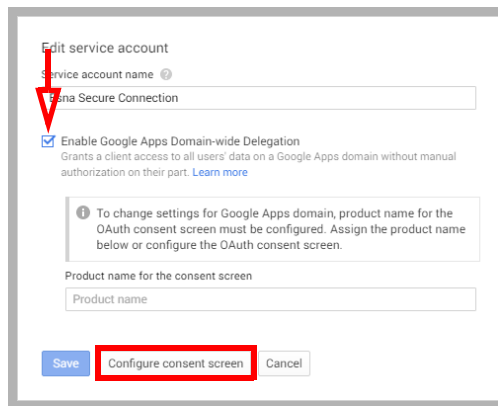
9. Click **Manage service accounts**.



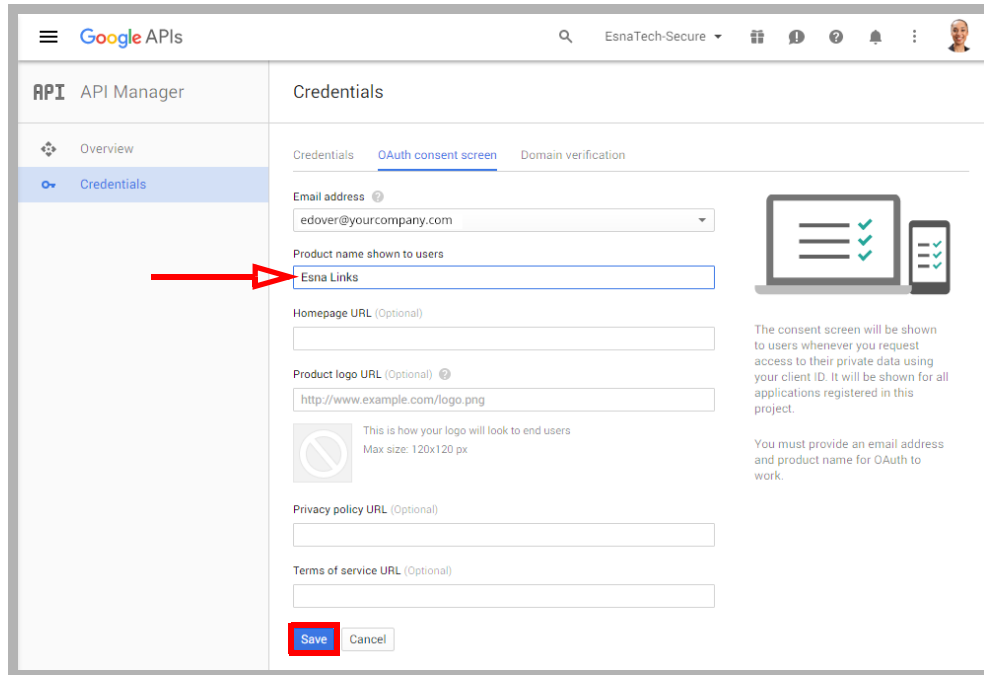
10. On the Service accounts tab, click the menu  to the right side of the service account just created and choose **Edit**.



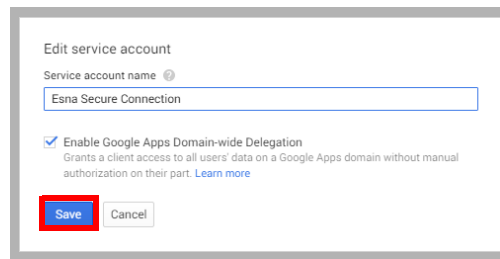
11. Turn on **Enable Google Apps Domain-wide Delegation**.
Click **Configure consent screen**.



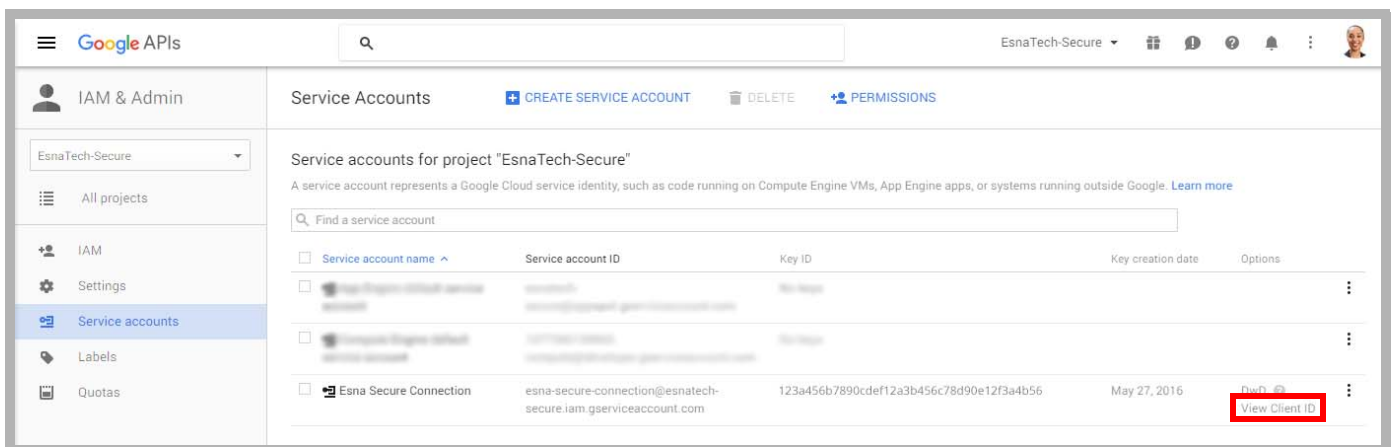
12. Enter a product name and click **Save**.



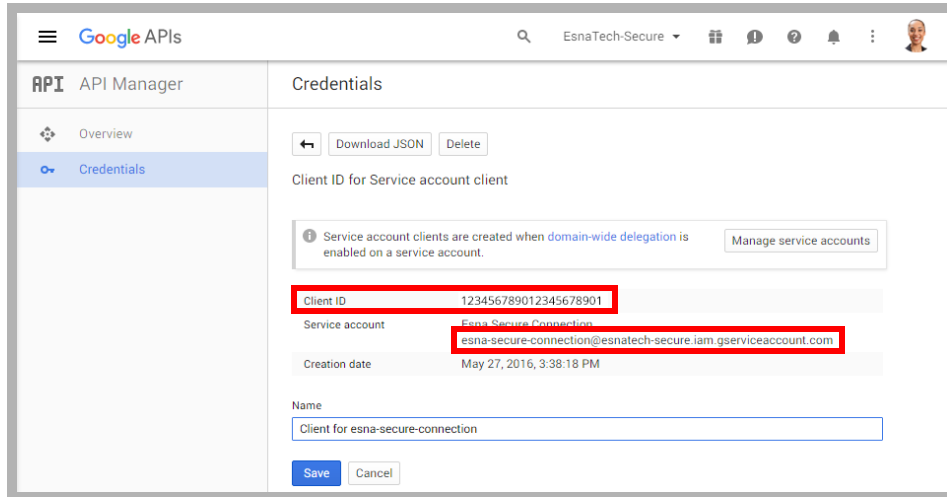
13. Click **Save** to complete the delegation.



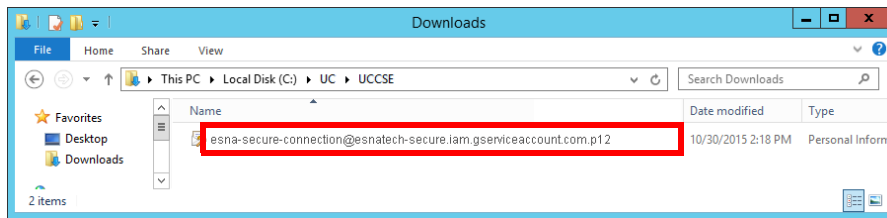
14. Click **View Client ID**.



- Record the Client ID and the Service account email address for the project. Click **Save**.

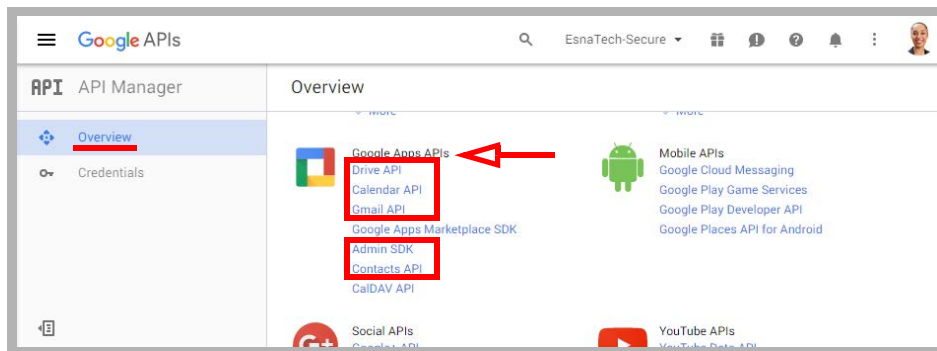


- Rename both copies of the P12 file from step 7 to match the email address recorded in step 15. Include the domain and the .com extension.




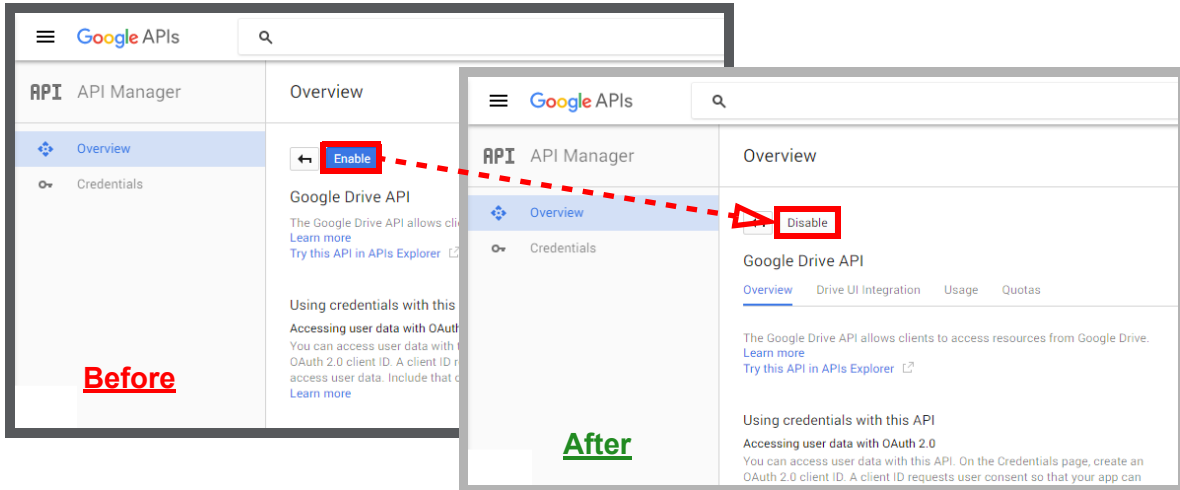
Caution: Do Not change the extension of the file. Always ensure it retains the P12 extension.

- Choose Overview. Under the section for **Google Apps APIs**, enable each of the following elements: Drive API, Calendar API, Gmail API, Admin SDK, and Contacts API.




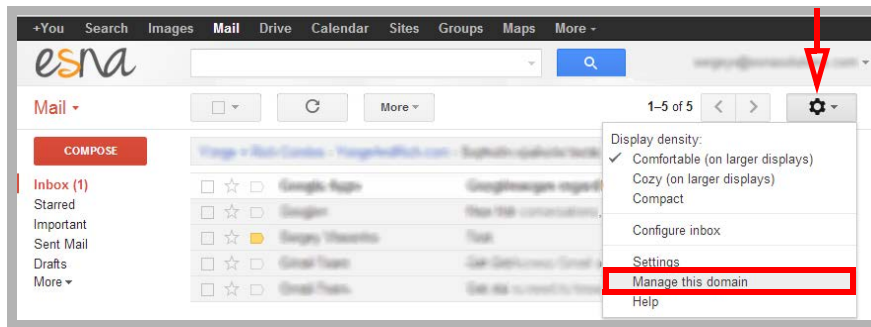
Hint: While these settings will work for most sites, not all sites will want to open all of these channels if it is not required. See **Minimum Required Scopes and APIs by Product** for details.

For each element chosen, click **Enable API** and then return  to the Overview and select the next item.

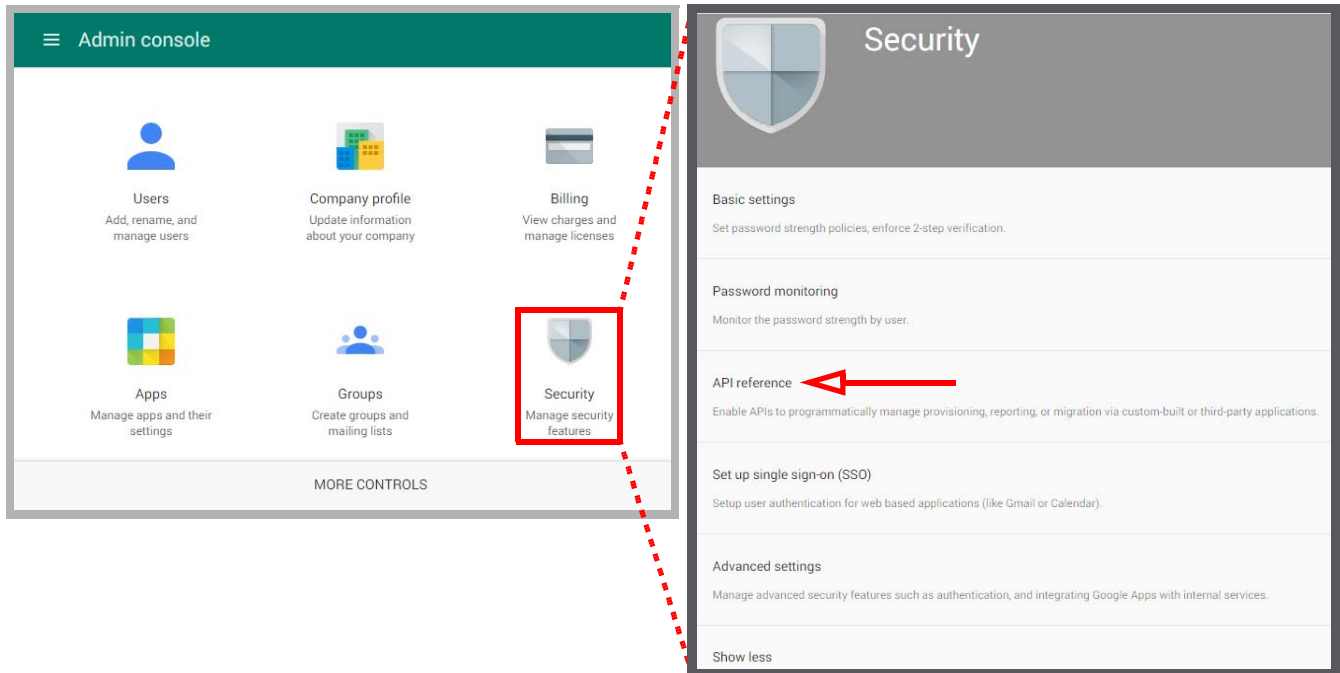


Domain Setup

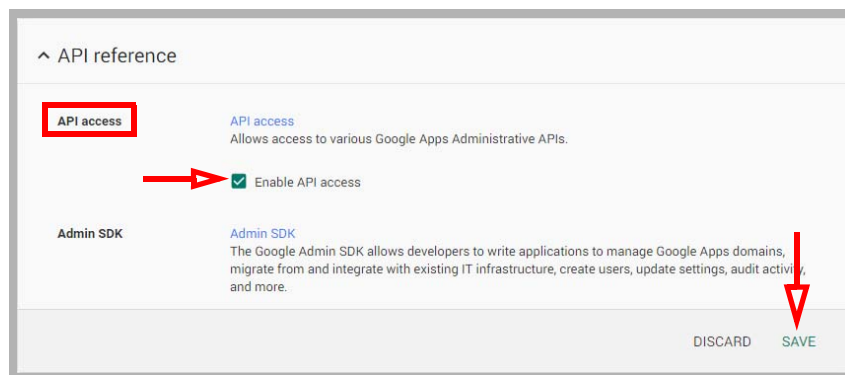
1. Login to Google Apps as an administrator.
2. Click Settings  and choose **Manage this domain**.



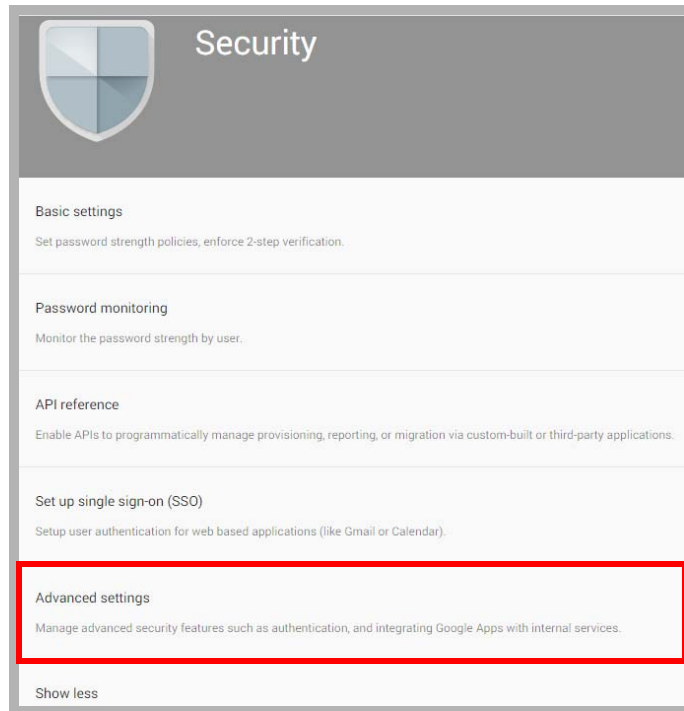
3. If prompted, provide the necessary administrator account and password details to login.
4. At the Admin Console, choose Security and click **API Reference**.



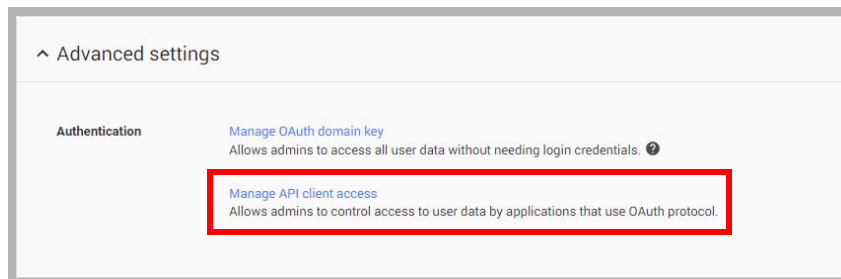
5. In the section for API access, place a check in the **Enable API access** box. Click **Save Changes**.



6. Return to the Security page and click **Advanced settings**.



7. Click **Manage API client access**.



- Enter the Client ID value from step 16 into the **Client Name** field. In the space for **One or More API Scopes**, enter the following string:

https://docs.google.com/feeds/,https://mail.google.com/,https://www.google.com/m8/feeds/,https://www.googleapis.com/auth/calendar

Manage API client access
 Developers can register their web applications and other API clients with Google to enable access to data in Google services like Calendar. You can authorize these registered clients to access your user data without your users having to individually give consent or their passwords. [Learn more](#)

Authorized API clients The following API client domains are registered with Google and authorized to access data for your users.

Client Name Example: www.example.com	One or More API Scopes https://docs.google.com/feeds/https://docs.googleusercontent... [Authorize] Example: http://www.google.com/calendar/feeds/ (comma-delimited)
--	---

[Learn more about registering new API clients](#)

Client ID	123456789012345678901
Service account	Esna Secure Connection esna-secure-connection@esnatech-secure.iam.gserviceaccount.com
Creation date	May 27, 2016, 3:38:18 PM

Hint: Copy and paste the string above into the scopes field in Chrome. This will greatly reduce the chance of misspelling the entry and breaking the configuration.

Hint: While these settings will work for most sites, not all sites will want to open all of these channels if it is not required. See **Minimum Required Scopes and APIs by Product** for details.

Note: When configuring for Zang Connect for Cisco TelePresence (TMS), an additional scope must be defined (**Calendar Resources (Read/Write)**). To the above list, add the following:

https://apps-apis.google.com/a/feeds/calendar/resource/

- When ready, click the **Authorize** button.
- Verify that the selected scopes were successfully installed.

123456789012345678901	Calendar Resources (Read/Write) https://apps-apis.google.com/a/feeds/calendar/resource/ Docs (Read/Write) https://docs.google.com/feeds/ Email (Read/Write/Send) https://mail.google.com/ Contacts (Read/Write) https://www.google.com/m8/feeds/ Calendar (Read/Write) https://www.googleapis.com/auth/calendar	Remove
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Minimum Required Scopes and APIs by Product

Enabling all of the listed scopes and APIs will work for most situations. However, not all administrators will want to open all of these channels if it is not necessary. This table shows the minimum required scopes and APIs for each product.

		OFFICELINK	ESNA CLOUDLINK	ILINK FOR CISCO	ILINK FOR WEBEX	ESNA CLOUDLINK FOR TMS
SCOPES * (see below)	auth/admin	•	•	•	•	
	auth/calendar					•
	auth/drive	•	•			
	auth/drive.file	•	•			
	calendar/feeds	•	•	•	•	
	calendar/resource					•
	m8/feeds	•	•	•	•	
	mail.google.com	•	•			
APIs	Admin SDK	•	•	•	•	•
	Contacts API	•	•	•	•	
	Google Calendar API	•	•	•	•	•
	Google Drive API	•	•			
	GMail API	•	•			

* The full paths for all listed scopes are displayed here.

auth/admin - <https://www.googleapis.com/auth/admin.directory.user.readonly>

auth/calendar - <https://www.googleapis.com/auth/calendar>

auth/drive - <https://www.googleapis.com/auth/drive>

auth/drive.file - <https://www.googleapis.com/auth/drive.file>

calendar/feeds - <https://www.google.com/calendar/feeds/>

calendar/resource - <https://apps-apis.google.com/a/feeds/calendar/resource/>

m8/feeds - <https://www.google.com/m8/feeds/>

mail.google.com - <https://mail.google.com/>

