

Gmail API Setup Guide

Project Name: GenX FX Project YN

Project Number: 135958344499

Project ID: flash-student-473123-n2

Service Account: 236873001744-compute@developer.gserviceaccount.com

1) Enable the Gmail API

1. Open Google Cloud Console and select your project.
2. Go to APIs & Services → Library.
3. Search for Gmail API and click Enable.

2) Choose Authentication Method

You can use OAuth 2.0 (for user consent) or Service Account + Domain-wide Delegation (for Workspace admins).

3A) OAuth 2.0 (User Consent Flow)

1. Configure OAuth consent screen in Cloud Console.
2. Create OAuth Client ID credentials.
3. Download the JSON file and use it in your app.
4. Request the proper Gmail scopes (read/send/modify).

3B) Service Account + Domain-wide Delegation

1. Create or select a service account in IAM & Admin.
2. Enable Domain-wide Delegation and note the Client ID.
3. Create a JSON key file and store securely.
4. In Workspace Admin console, grant API scopes to the client ID.
5. Use impersonation in your server code to access mailboxes.

4) Common Gmail API Scopes

- 1 <https://www.googleapis.com/auth/gmail.readonly> — Read only
- 2 <https://www.googleapis.com/auth/gmail.send> — Send messages only
- 3 <https://www.googleapis.com/auth/gmail.modify> — Read + modify (archive/delete)
- 4 <https://mail.google.com/> — Full mailbox access

5) Security Best Practices

- Never commit credentials to source control.
- Use short-lived tokens or refresh tokens.
- Restrict OAuth redirect URIs.
- Rotate service account keys regularly.

- Monitor API usage and restrict scopes to the minimum required.