



# Process and Service Programming

## 5.4 Annex I - GMail configurations

---



I.E.S.  
Doctor Balmis

PSP class notes ([https://psp2dam.github.io/psp\\_sources](https://psp2dam.github.io/psp_sources)) by Vicente Martínez is licensed under  
CC BY-NC-SA 4.0  (<http://creativecommons.org/licenses/by-nc-sa/4.0/?ref=chooser-v1>)

## 5.4 Annex I - GMail configurations

- 5.4.1 Common Exceptions when using Gmail SMTP
  - 5.4.1.1 Two-way authentication
  - 5.4.1.2 Less secure apps

### 5.4.1 Common Exceptions when using Gmail SMTP

While sending an email with any of the above methods, you might get the following exceptions, even your Gmail credentials are correct.

#### Google security

It's important to check your account security. Change the following settings only if you are absolutely sure of what you are doing.

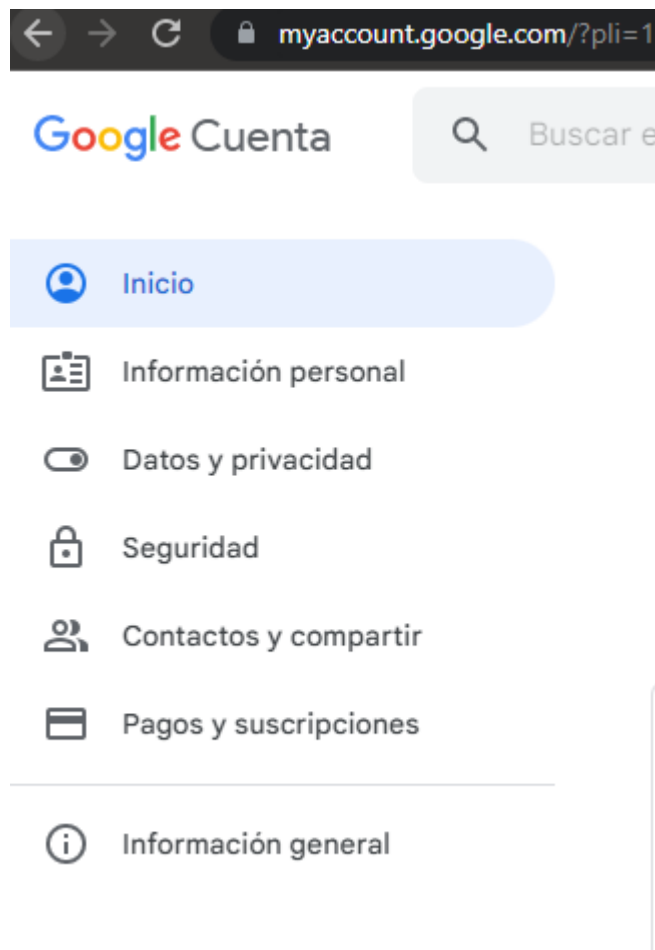
Do not share any of the password because your account can be used without your permission.

#### 5.4.1.1 Two-way authentication

```
1      Error while trying to send mail: 534-5.7.9 Application-specific password required. Learn more at
2      534 5.7.9  https://support.google.com/mail/?p=InvalidSecondFactor_r10-20020a05600c458a00b003d35acb0fd7sm14828087wmo.34
3
4      jakarta.mail.AuthenticationFailedException: 534-5.7.9 Application-specific password required. Learn more at
5      534 5.7.9  https://support.google.com/mail/?p=InvalidSecondFactor_r10-20020a05600c458a00b003d35acb0fd7sm14828087wmo.34
6
7      at com.sun.mail.smtp.SMTPTransport$Authenticator.authenticate(SMTPTransport.java:947)
8      at com.sun.mail.smtp.SMTPTransport.authenticate(SMTPTransport.java:858)
9      at com.sun.mail.smtp.SMTPTransport.protocolConnect(SMTPTransport.java:762)
10     at jakarta.mail.Service.connect(Service.java:364)
11     at jakarta.mail.Service.connect(Service.java:222)
12     at jakarta.mail.Service.connect(Service.java:171)
13     at jakarta.mail.Transport.send0(Transport.java:230)
14     at jakarta.mail.Transport.send(Transport.java:100)
15     ...
```

The exception (`jakarta.mail.AuthenticationFailedException`) talks about the Application-specific password required. This is because your Gmail account is configured for 2-step verification so your direct Gmail password won't work here due to security reasons. To rectify this, you need to follow the below steps.

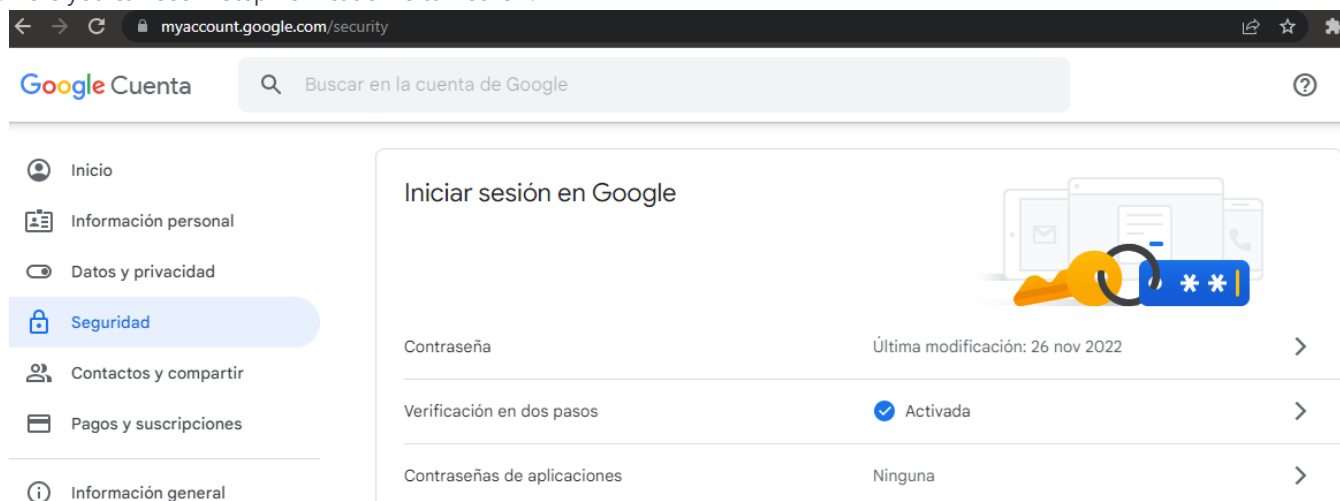
1. Sign in with your Google account
2. Go to your Google account or just click on the link [Google account security settings \(https://myaccount.google.com/?pli=1\)](https://myaccount.google.com/?pli=1)



3. Click on Security from the left menu.

4. Scroll a bit down to reach the “Signing in to Google” section – most probably 3rd section from the top.

5. Here you can see 2-Step Verification is turned On.



6. Click on App Password just below it. Google will ask you to re-enter the password.

7. On the next screen, you need to select the App and Device.


8. From the “Select app” dropdown, just select Other (Custom name).

9. Give an appropriate name like “Web” and press Generate button.

## ← Contraseñas de aplicaciones

Las contraseñas de aplicación te permiten iniciar sesión en tu cuenta de Google desde aplicaciones instaladas en dispositivos que no admiten la verificación en dos pasos. No tendrás que recordarlas porque solo tienes que introducirlas una vez. [Más información](#)

**Tus contraseñas de aplicación**

Nombre	Fecha de creación	Último uso	
Jakarta Mail	0:47	—	

### Contraseña de aplicación generada

Tu contraseña de aplicación para el dispositivo

**y1ld clm qjpo evlt**

**Cómo utilizarla**

Accede a la sección de configuración de tu cuenta de Google en la aplicación o el dispositivo que estés intentando configurar. Sustituye tu contraseña por la contraseña de 16 caracteres que se muestra arriba. Al igual que la contraseña normal, esta contraseña de aplicación ofrece acceso completo a tu cuenta de Google. No tendrás que recordarla, así que no la escribas ni la compartas con nadie.

**HECHO**

Email

securesally@gmail.com

Password

••••••••••••••••

10. You will a generated password on the screen with a popup.

11. Save and use this password for all your Java mail code.

### 5.4.1.2 Less secure apps

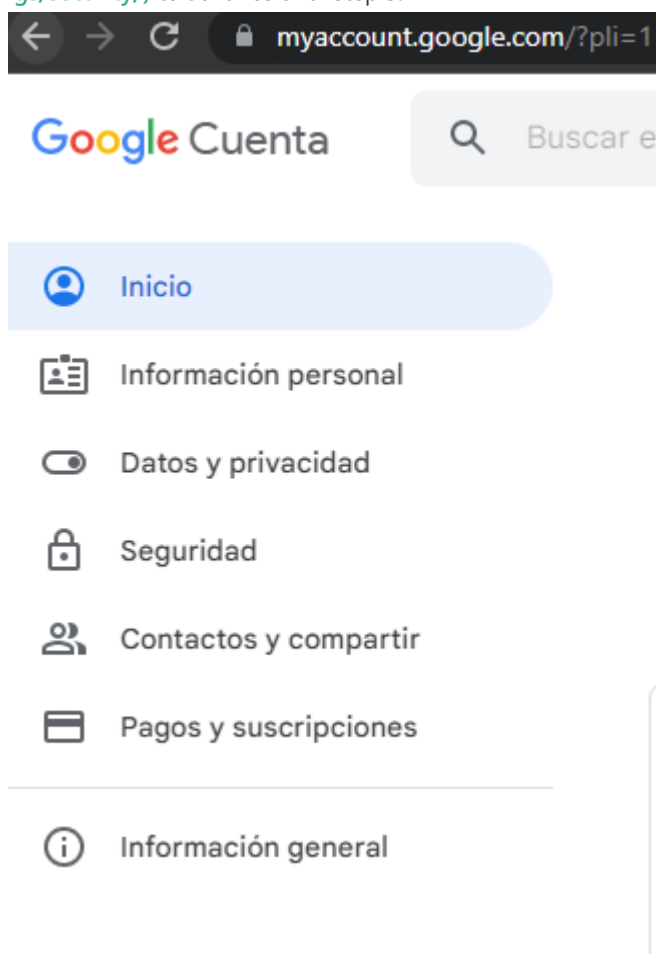
```

1  Error while trying to send mail: 535-5.7.8 Username and Password not accepted. Learn more at
2  535 5.7.8 https://support.google.com/mail/?p=BadCredentials o9-20020a05600c510900b003c6f8d30e40sm15602278wms.31 - gsm
3
4  jakarta.mail.AuthenticationFailedException: 535-5.7.8 Username and Password not accepted. Learn more at
5  535 5.7.8 https://support.google.com/mail/?p=BadCredentials o9-20020a05600c510900b003c6f8d30e40sm15602278wms.31 - gsm

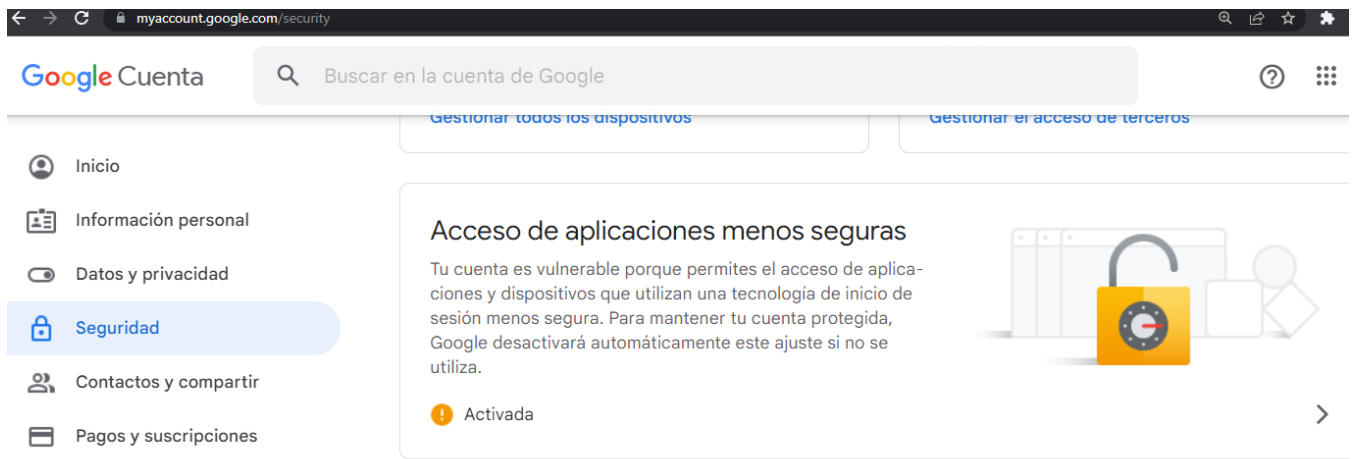
```

```
6
7   at com.sun.mail.smtp.SMTPTransport$Authenticator.authenticate(SMTPTransport.java:947)
8   at com.sun.mail.smtp.SMTPTransport.authenticate(SMTPTransport.java:858)
9   at com.sun.mail.smtp.SMTPTransport.protocolConnect(SMTPTransport.java:762)
10  at jakarta.mail.Service.connect(Service.java:364)
11  at jakarta.mail.Service.connect(Service.java:222)
12  at jakarta.mail.Service.connect(Service.java:171)
13  at jakarta.mail.Transport.send0(Transport.java:230)
14  at jakarta.mail.Transport.send(Transport.java:100)
15  ...
```

1. Sign in with your Google account
2. Go to your Google account or just click on the link [Google less secure apps settings](https://www.google.com/settings/security/) (<https://www.google.com/settings/security/>) to advance until step 5.



3. Click on Security from the left menu.
4. Scroll a bit down to reach the "Less secure applications".
5. You will find it disabled. Enter the section to turn it On.



6. Save and use your account password for all your Java mail code.