

# Process and Service Programming

5.4 Annex I - GMail configurations



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

IES Doctor Balmis 1/6

# 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
      534 5.7.9 https://support.google.com/mail/?p=InvalidSecondFactor r10-20020a05600c458a00b003d35acb0fd7sm14828087wmo.34
2
3
       jakarta.mail.AuthenticationFailedException: 534-5.7.9 Application-specific password required. Learn more at
      534 5.7.9 https://support.google.com/mail/?p=InvalidSecondFactor r10-20020a05600c458a00b003d35acb0fd7sm14828087wmo.34
6
          at com.sun.mail.smtp.SMTPTransport$Authenticator.authenticate(SMTPTransport.java:947)
8
           at com.sun.mail.smtp.SMTPTransport.authenticate(SMTPTransport.java:858)
          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)
           at jakarta.mail.Transport.send(Transport.java:100)
15
```

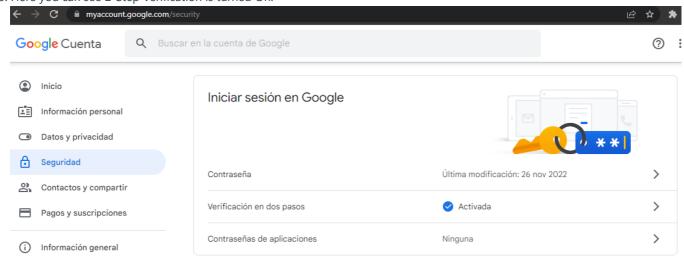
The exception (jakarta.mail.AuthenticationFailedException) talks about the Application-specific password required. This is because your Gmail account is configured for 2-step verification so your direct Gmail password won't work here due to security reasons. To rectify this, you need to follow the below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

IES Doctor Balmis 2 / 6

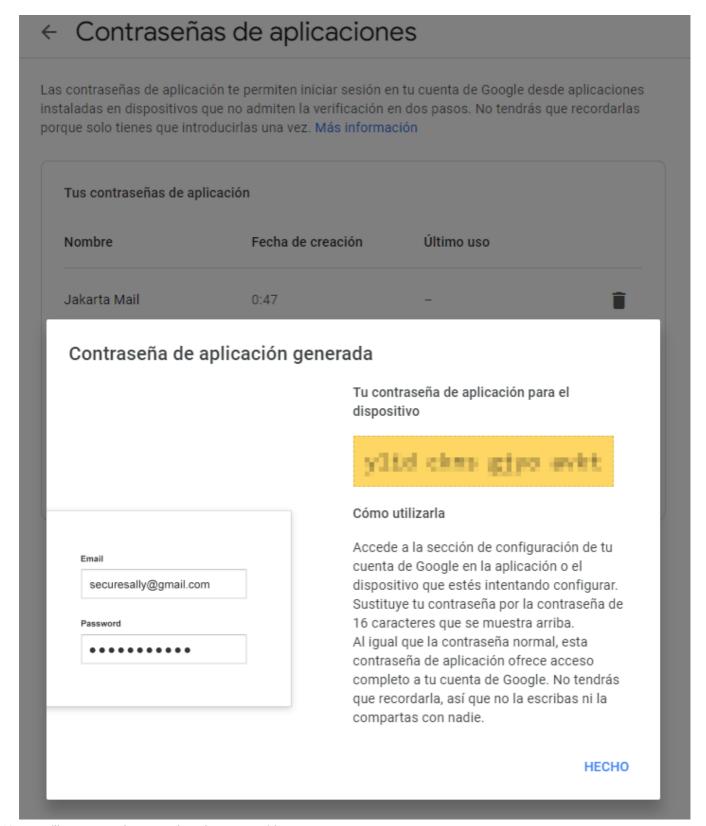


- 3. Click on Security from the left menu.
- 4. Scroll a bit down to reach the "Signing in to Google" section most probably 3rd section from the top.
- 5. Here you can see 2-Step Verification is turned On.



- 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.

IES Doctor Balmis 3/6



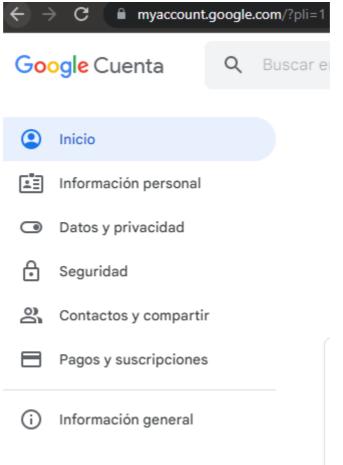
- 10. You will a generated password on the screen with a popup.
- 11. Save and use this password for all your Java mail code.

### 5.4.1.2 Less secure apps

IES Doctor Balmis 4 / 6

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

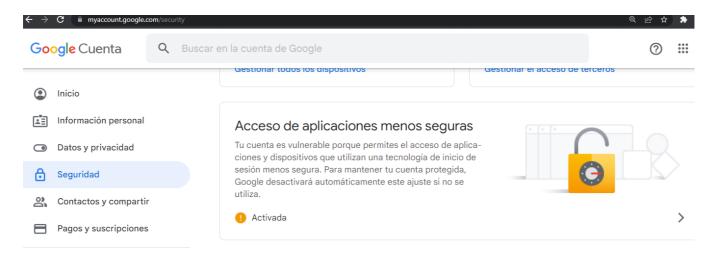
- 1. Sign in with your Google account
- 2. Go to your Google account or just click on the link Google less secure apps settings (https://www.google.com/settings/security/) to advance until step 5.



- 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.

IES Doctor Balmis 5 / 6

1



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

IES Doctor Balmis 6 / 6