

Lab 3 : How to Send an Email with Raspberry Pi

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Components Used

1. Rpi 5 & its power supply adapter
2. Breadboard & Wire
3. Push Button
4. Resistor

Open App Password

Reference : <https://support.google.com/accounts/answer/185833?hl=en>

 帳戶

首頁

應用程式密碼

Search APP Password in Google account

Google 帳戶搜尋結果

應用程式密碼

安全性

說明中心文章

← 應用程式密碼

在不支援新式安全性標準的舊版應用程式和服務中，您可以使用應用程式密碼登入 Google 帳戶。

相較於採用新式安全性標準的新版應用程式和服務，透過應用程式密碼登入帳戶的方式比較不安全。建立應用程式密碼前，請確認您是否需要使用這類密碼才能登入應用程式。

[瞭解詳情](#)

您沒有任何應用程式密碼。

如要設定新的應用程式密碼，請在下方輸入...

應用程式名稱

RaspberryPi

系統產生的應用程式密碼

您裝置專用的應用程式密碼

使用方式

在您想設定 Google 帳戶的應用程式或裝置上前往帳戶的「設定」頁面，然後將您的密碼替換成上方的 16 字元密碼。

這個應用程式密碼就如同您平常使用的密碼，可授予完整的 Google 帳戶存取權限。您不需要記住這組密碼，因此，請勿將密碼寫下或透露給任何人知道。

完成

Send an Email

```
import smtplib
from email.mime.text import MIMEText

# Email content
msg = MIMEText("This is a test email sent from Raspberry Pi!")
msg["Subject"] = "Hello from Raspberry Pi!"
msg["From"] = "your_email@gmail.com"
msg["To"] = "recipient_email@gmail.com"

# Login and send
server = smtplib.SMTP_SSL("smtp.gmail.com", 465)
server.login("your_email@gmail.com", "your_app_password")
server.send_message(msg)
server.quit()

print("Email sent successfully!")
```

Lab 3

- This experiment demonstrates how to use a physical push button connected to a Raspberry Pi GPIO pin to trigger an automatic email notification using Python.
- When the button is pressed, the Raspberry Pi will send an email to a predefined address with a short message indicating the event. The content of the email can be customized by the user—for example, including a specific alert message, timestamp.

Lab 3

The lab report should include the following:

Video

Code

Problems Encountered

End the report with a section called “Problems Encountered:” where you can describe missing features, problems with your codes, or difficulties encountered with using ssh/scp or other Unix commands. If there were no problems, write “None” .

Deadline : **(It is best to complete it in class)**

Submission Email : 61275068h@ntnu.edu.tw