Python Send Email with yagmail

Contents

Let's learn how to send email using yagmail from Python. Being able to send an email from Python opens up all sorts of possibilities.
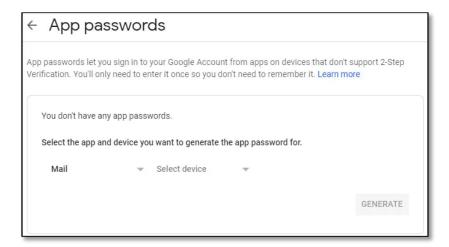
NOTE: This tutorial requires a Gmail account.

Setting up Your Gmail Account for Sending

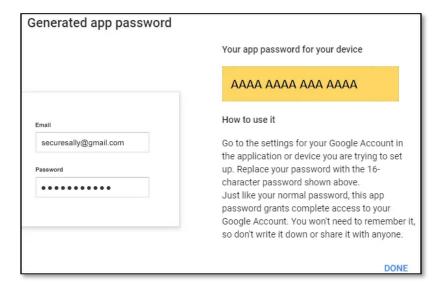We need to enable your Gmail account to receive connections from external programs.

1. Open your browser and access your Gmail account.

2. On the login screen, enter your Gmail username and password.

3. After the login, you need to access the following URL:

4. https://myaccount.google.com/signinoptions/two-step-verification

5. Enable the two-step verification on this account.

6. After enabling the two-step verification, you need to access the following URL:

7. https://security.google.com/settings/security/apppasswords

Create an Application Password

1. Select Gmail application and the type of device: **Other**.

2. Name the device: Python

3. Click on the Generate button and take note of the randomly generated password.

4. Access the following URL:

5. https://accounts.google.com/DisplayUnlockCaptcha

6. Click on the Continue button to enable external access to your Google account.

Allow access to your Google account

As a security precaution, Google may require you to complete this additional step when signing into a new device or application.

To allow access, click the Continue button below.

Note: Since your account uses 2-Step Verification, you may need to create an application-specific password to sign in with your application.

Continue

You have finished the required steps for the Gmail integration.

yagmail

Yagmail is a small Python library that makes it easy to send email from a Python program. This is a link to the documentation in case you wish to expand on this program.
https://yagmail.readthedocs.io/en/latest/index.html

Sending Email with yagmail

1. At a command prompt: **pip install yagmail**

2. Create a Python file named **email_account_gmail.py**

This file will be used to store your sender email address and password. You can then use this in multiple programs.

```python
1  """
2      Name: email_account_gmail.py
3      Author:
4      Created:
5      Purpose: Store Gmail account information
6  """
7
8  SENDER = "Your gmail account"
9  PASSWORD = "Your App password"
```

3. Create a Python file named **send_yagmail.py**

```python
 1  """
 2      Name: send_yagmail.py
 3      Author:
 4      Created:
 5      Purpose: Send email using Python
 6  """
 7  # pip install yagmail
 8  import yagmail
 9  import email_account_gmail
10
11
12  def main():
13
14      # Single email recepient or multiple email addresses
15      # receiver = "loringw@wncc.edu","wloring@megavision.com"
16      # Substitute your wncc email address
17      receiver = "loringw@wncc.edu"
18
19      subject = "Hi, this is the subject!"
20      contents = """
21      Here is the content of the email!
22      You can say whatever you want.
23      Hi!
24      """
25
26      # Create yagmail object to send email
27      yag = yagmail.SMTP(
28          user=email_account_gmail.SENDER,
29          password=email_account_gmail.PASSWORD
30      )
31
32      # Send the email
33      yag.send(
34          to=receiver,
35          subject=subject,
36          contents=contents
37      )
38
39
40  # If a standalone program, call the main function
41  # Else, use as a module
42  if __name__ == "__main__":
43      main()
```

4. Send an email to one of your email accounts.

Congratulations! You can use Python to send emails using Gmail.

Assignment Submission

- **Only** attach the **send_yagmail.py** file to the assignment in Blackboard.

- Do not attach the email_account_gmail.py file. I do not want your email password. I will test the program with my own Gmail account.

- Attach a screenshot of the email in your inbox to the assignment in Blackboard.