

# SENDGRID INTEGRATION WITH PYTHON CODE

The screenshot shows the SendGrid integration guide for Python. The left sidebar contains a navigation menu with options like Dashboard, Email API, Dynamic Templates, Integration Guide, Marketing, Design Library, Stats, Activity, Suppressions, Settings, and Twilio SMS. The main content area is titled "Integrate using our Web API or SMTP Relay" and "How to send email using Python". It lists five steps: 1. Make sure you have the prerequisites (Python 2.6, 2.7, 3.4 or 3.5). 2. Create an API key (a key "1659540140" is shown). 3. Create an environment variable (code for setting SENDGRID\_API\_KEY is shown). 4. Install the package (pip install sendgrid). 5. Send your first email (code for sending an email is shown).

## Integrate using our Web API or SMTP Relay

+ All languages

### How to send email using Python

- 1 Make sure you have the prerequisites**  
Our library requires Python 2.6, 2.7, 3.4 or 3.5.
- 2 Create an API key**  
This allows your application to authenticate to our API and send mail. You can enable or disable additional permissions on the [API keys page](#).  

✓ "1659540140" was successfully created and added to the next step.

S6\_Kc\_eVU\_R1SDtsZ-HDepFv.pjD3D6v1xsu0G-hhbb3x07r4bqx2ZuupVTnp6GA
- 3 Create an environment variable**  
Update your development environment with your SENDGRID\_API\_KEY. Run the following in your shell:  

```
1 echo "export SENDGRID_API_KEY='S6_Kc_eVU_R1SDtsZ-HDepFv.pjD3D6v1xsu0G-hhbb3x07r4bqx2ZuupVTnp6GA'" > sendgrid.env
2 echo "sendgrid.env" >> .gitignore
3 source ./sendgrid.env
```
- 4 Install the package**  
Install `sendgrid-python` and its dependencies using pip.  

```
1 pip install sendgrid
```
- 5 Send your first email**  
The following is the minimum needed code to send an email:  

```
1 # using SendGrid's Python Library
2 # https://github.com/sendgrid/sendgrid-python
3 import os
4 from sendgrid import SendGridAPIClient
5 from sendgrid.helpers.mail import Mail
6
7 message = Mail({
8     'from_email': 'from_email@example.com',
9     'to_email': 'to@example.com',
10    'subject': 'Sending with Twilio SendGrid is Fun',
11    'html_content': '<strong>and easy to do anywhere, even with Python</strong>'
12 })
13 try:
14     sg = SendGridAPIClient(os.environ.get('SENDGRID_API_KEY'))
15     response = sg.send(message)
16     print(response.status_code)
17     print(response.headers)
18 except Exception as e:
19     print(e.message)
```

The screenshot shows the SendGrid integration guide for Python, focusing on steps 4 and 5. Step 4 is "Install the package" (pip install sendgrid). Step 5 is "Send your first email" with a code block for sending an email. Below the code block, there is a checkbox "I've integrated the code above." and a "Next: Verify integration" button.

### 4 Install the package

Install `sendgrid-python` and its dependencies using pip.

```
1 pip install sendgrid
```

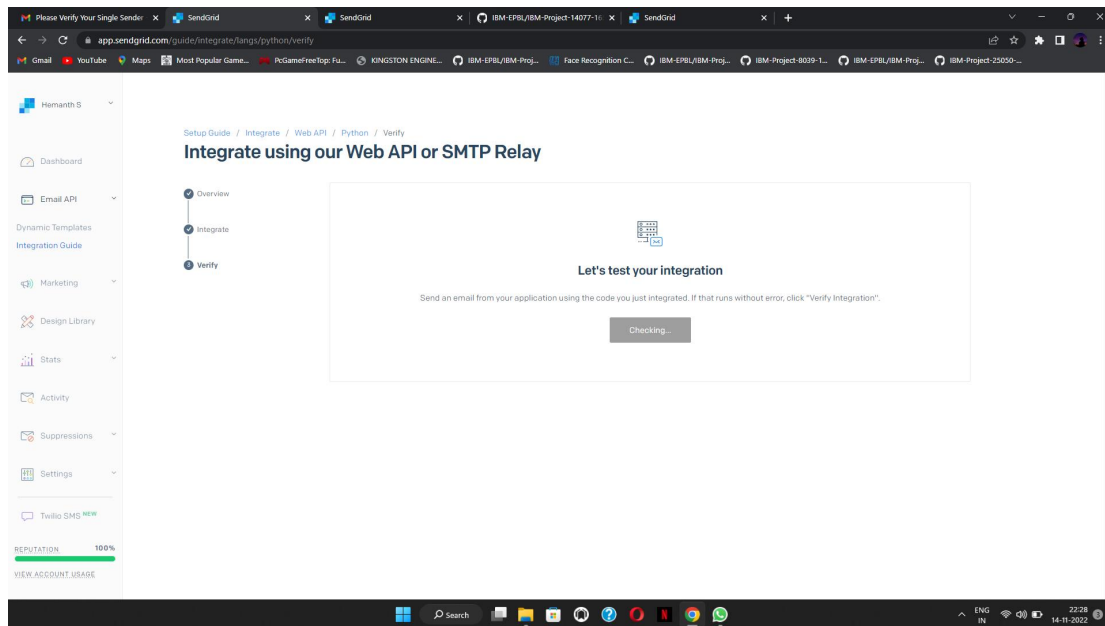
### 5 Send your first email

The following is the minimum needed code to send an email:

```
1 # using SendGrid's Python Library
2 # https://github.com/sendgrid/sendgrid-python
3 import os
4 from sendgrid import SendGridAPIClient
5 from sendgrid.helpers.mail import Mail
6
7 message = Mail({
8     'from_email': 'from_email@example.com',
9     'to_email': 'to@example.com',
10    'subject': 'Sending with Twilio SendGrid is Fun',
11    'html_content': '<strong>and easy to do anywhere, even with Python</strong>'
12 })
13 try:
14     sg = SendGridAPIClient(os.environ.get('SENDGRID_API_KEY'))
15     response = sg.send(message)
16     print(response.status_code)
17     print(response.headers)
18 except Exception as e:
19     print(e.message)
```

Implement and run the code above. If that runs without error, click "Next" and we'll check to see if your email came through SendGrid.

☐ I've integrated the code above. [Next: Verify integration](#)



## PYTHON CODE :

# using SendGrid's Python Library  
 # <https://github.com/sendgrid/sendgrid-python>

```
import os
from sendgrid import SendGridAPIClient
from sendgrid.helpers.mail import Mail

message = Mail(
    from_email='from_email@example.com',
    to_emails='to@example.com',
    subject='Sending with Twilio SendGrid is Fun',
    html_content='<strong>and easy to do anywhere, even with Python</strong>')
try:
    sg = SendGridAPIClient(os.environ.get('SENDGRID_API_KEY'))
    response = sg.send(message)
    print(response.status_code)
    print(response.body)
    print(response.headers)
except Exception as e:
    print(e.message)
```