

IFTTT Email Trigger – using Python

- Python code subscribed to temperature sensor;
- Sensor value is monitored against set threshold;
- If value exceeds threshold, HTTP POST is done to IFTTT applet;

Creating Your IFTTT Account

For this project we'll be using IFTTT to integrate with Google Sheets. So, the first step is creating an account on IFTTT if you don't have one. Creating an account on IFTTT is free!

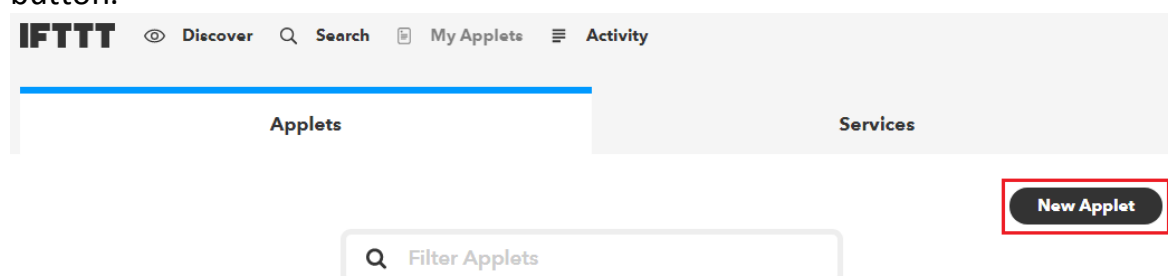
Go the official site: ifttt.com and enter your email to get started.



Creating an Applet

Next, you need to create a new applet. Follow the next steps to create a new applet:

1) Go to “My Applets” and create a new applet by clicking the “New Applet” button.



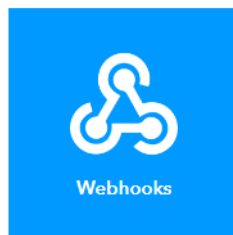
2) Click on the “this” word that is in a blue color – as highlighted in the figure below.



3) Search for the “Webhooks” service and select the Webhooks icon.

Choose a service

Step 1 of 6



4) Choose the “Receive a web request” trigger.



Choose trigger

Step 2 of 6

Receive a web request

This trigger fires every time the Maker service receives a web request to notify it of an event. For information on triggering events, go to your Maker service settings and then the listed URL (web) or tap your username (mobile)

5) Give a name to the event. In this case “**dht11_email**” as shown in the figure below. Then, click the “Create trigger” button.



Complete trigger fields

Step 2 of 6

Receive a web request

This trigger fires every time the Maker service receives a web request to notify it of an event. For information on triggering events, go to your Maker service settings and then the listed URL (web) or tap your username (mobile)

Event Name

The name of the event, like "button_pressed" or "front_door_opened"

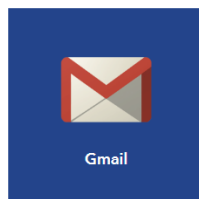
Create trigger

6) Click the "that" word to proceed.

if  then  that

7) Search for the "Gmail" service, and select the Gmail icon.

Step 3 of 6



8) If you haven't connected with the Gmail service yet, you need to click the "Connect" button.

9) Choose action to send email to yourself

[< Back](#)

Choose action

Step 4 of 6

Send an email

This Action will send an email to up to twenty recipients from your Gmail account.

Send yourself an email

This action will send yourself an email. HTML, images and links are supported.

Create a draft

This action will create a draft email in your Gmail account.

10) Then, complete the action fields. Give the spreadsheet a name, leave the “Formatted row” field as default, and then, choose a Google Drive folder path. If you leave this field empty, IFTTT will create a folder called “IFTTT” in your Google Drive folder to save the spreadsheet. Finally, click the “Create action” button.

The screenshot shows the 'Add ingredient' form for an email action. The 'Body' field is highlighted with a yellow box and contains the following text:
What: {{EventName}}

When: {{OccurredAt}}

Temperature: {{Value1}}
Below the body field is a 'Some HTML ok' checkbox and an 'Add ingredient' button. The 'Attachment URL' field is empty, with a label 'URL to include as an attachment' and an 'Add ingredient' button. At the bottom, a large yellow button labeled 'Create action' is highlighted.

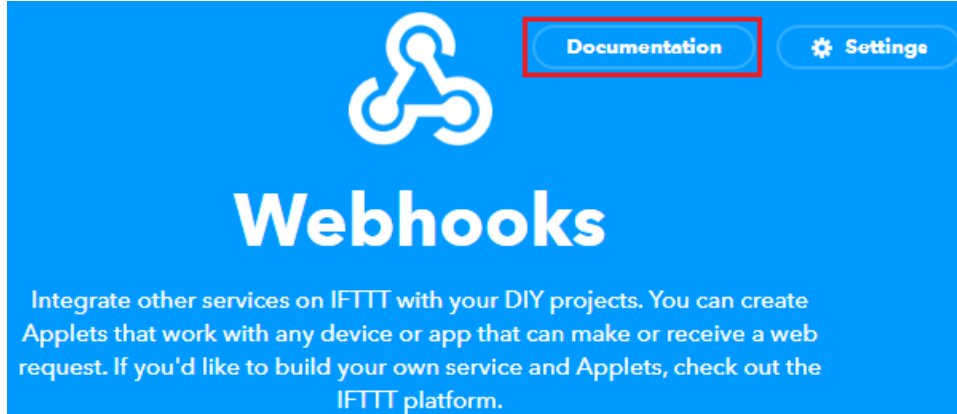
11) Your applet should be created after you press the “Finish” button.

The screenshot shows the IFTTT applet creation screen. The top section is blue and contains the text 'an email from abhay@frugal-labs.com' and 'by abhay18'. Below this is a 'works with' section with an email icon. The bottom section is white and contains a toggle switch for 'Receive notifications when this Applet runs', which is currently turned on. At the bottom, a large green button labeled 'Finish' is highlighted with a yellow oval.

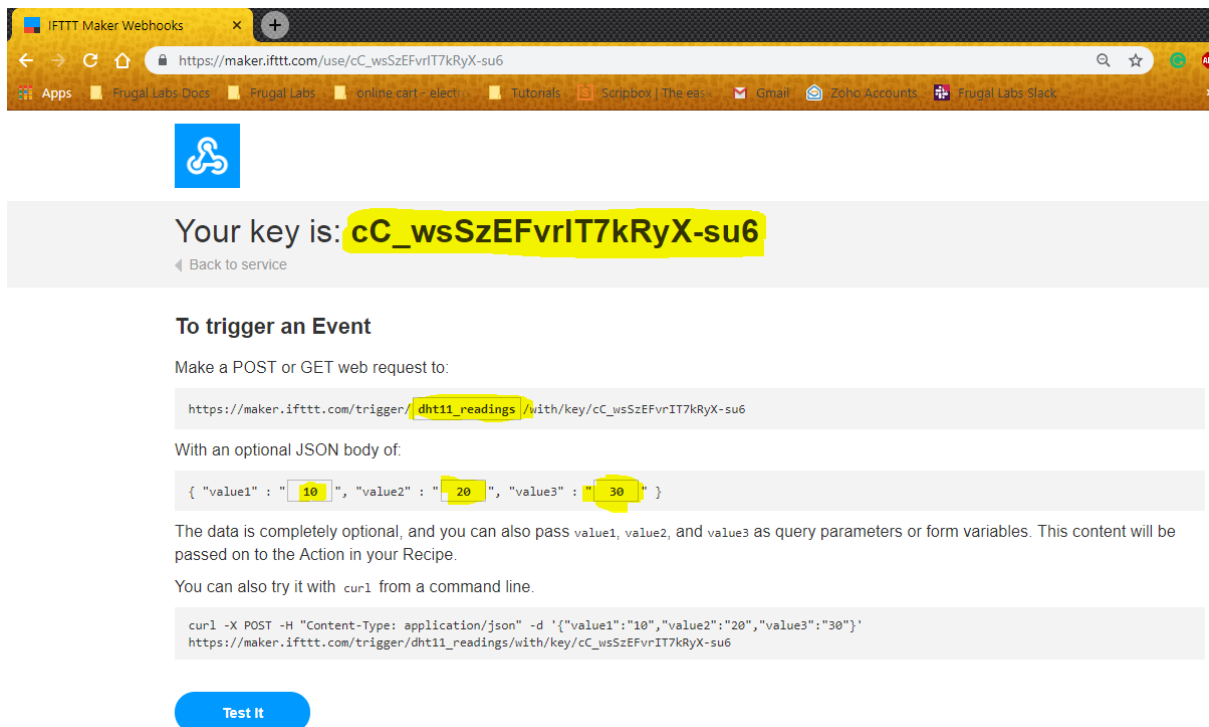
Testing Your Applet

Before proceeding with the project, it is very important to test your applet first. Follow the next steps to test your applet.

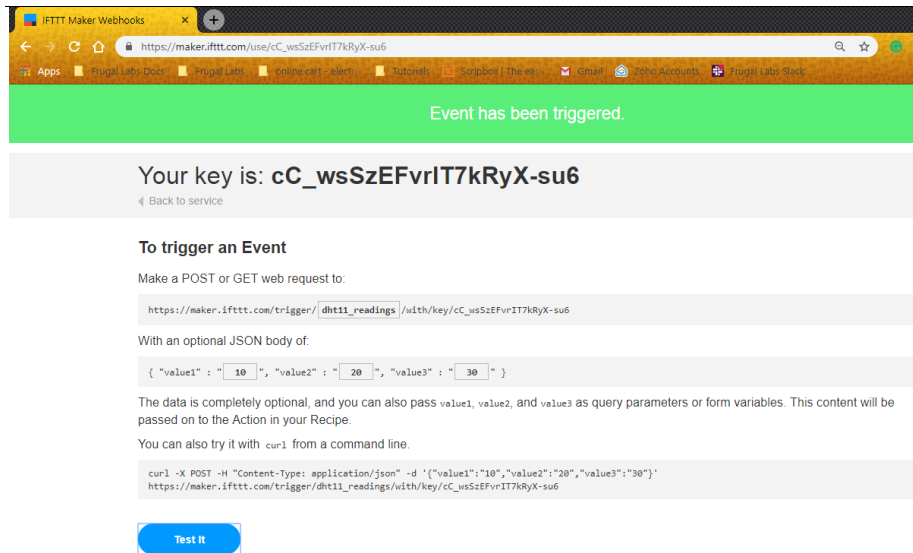
1) Go to the [Webhooks Service page](#), and click the “Documentation” button.



2) A page as shown in the following figure will appear. The page shows your unique API key. You shouldn't share your unique API key with anyone. Fill the “To trigger an Event” with your app name “dht11-email” section as shown below – it is highlighted with red rectangles. Then, click the “Test it” button.



3) The event should be successfully triggered, and you'll get a green message as shown below saying “Event has been triggered”.



IFTTT Maker Webhooks

Event has been triggered.

Your key is: **cC_wsSzEFvrlT7kRyX-su6**

◀ Back to service

To trigger an Event

Make a POST or GET web request to:

```
https://maker.ifttt.com/trigger/dht11_readings/with/key/cC_wsSzEFvrlT7kRyX-su6
```

With an optional JSON body of:

```
{ "value1": "10", "value2": "20", "value3": "30" }
```

The data is completely optional, and you can also pass value1, value2, and value3 as query parameters or form variables. This content will be passed on to the Action in your Recipe.

You can also try it with `curl` from a command line.

```
curl -X POST -H "Content-Type: application/json" -d '{"value1": "10", "value2": "20", "value3": "30"}' https://maker.ifttt.com/trigger/dht11_readings/with/key/cC_wsSzEFvrlT7kRyX-su6
```

Test It

Python Code

```
1. import requests
2. import paho.mqtt.client as mqtt
3. import datetime
4. threshold = 25
5. subTopic = "abhay/room1/temp"
6. def on_connect(client, userdata, flags, rc):
7.     print("connected with result code: "+str(rc))
8.     client.subscribe(subTopic,2)
9.     print "subscribed to: " + subTopic
10.    print "Threshold = " + str(threshold)
11.
12. def on_message(client, userdata,msg):
13.     print datetime.datetime.now()
14.     print(msg.topic+"= "+str(msg.payload))
15.     print"-----"
16.     if (msg.topic == subTopic):
17.         if(float(msg.payload) > threshold):
18.             print "Email triggered"
19.             report = {}
20.             report["value1"] = msg.payload
21.             requests.post("https://maker.ifttt.com/trigger/dht11-
email/with/key/cC_wsSzEFvrlT7kRyX-su6", data=report)
22.
23. client = mqtt.Client()
24. client.on_connect = on_connect
25. client.on_message = on_message
26. client.connect("platform.myflip.io",1883)
27. client.loop_forever()
```

Note: There is a time interval limit for using IFTTT service. If you exceed the number of triggers in a day for an applet, it will get blocked for that day.