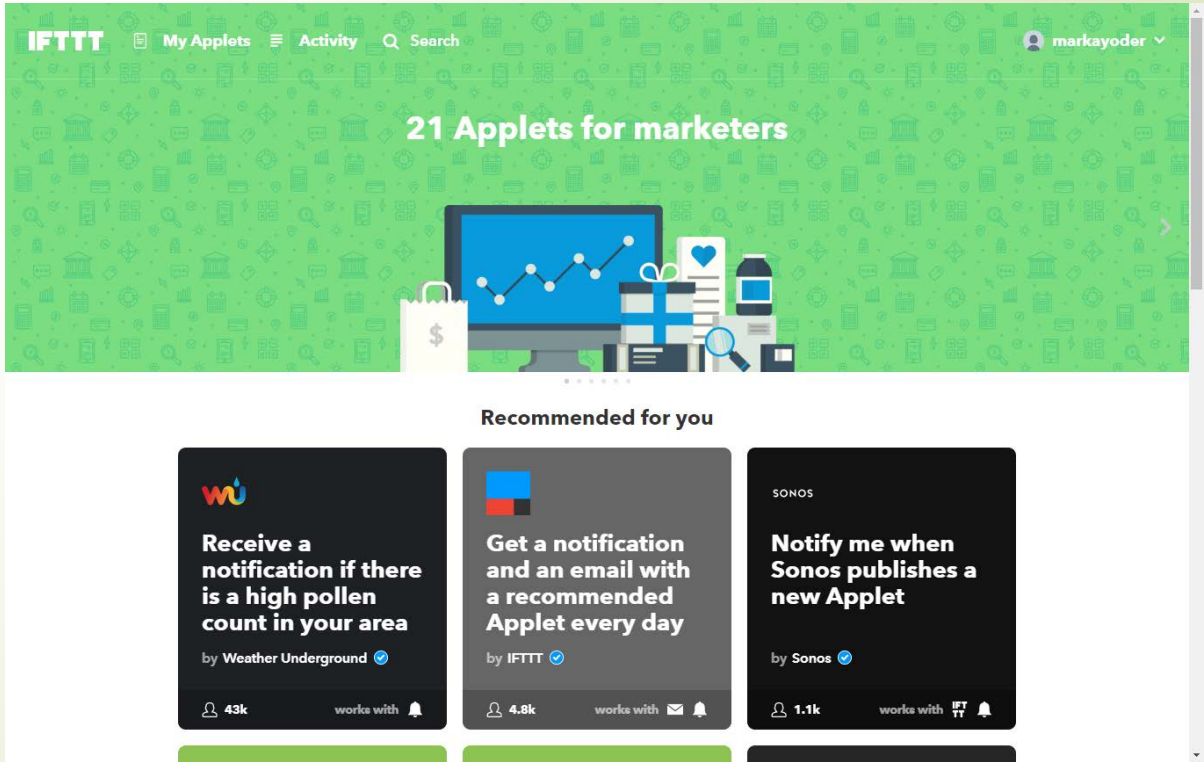
07-2 ifttt

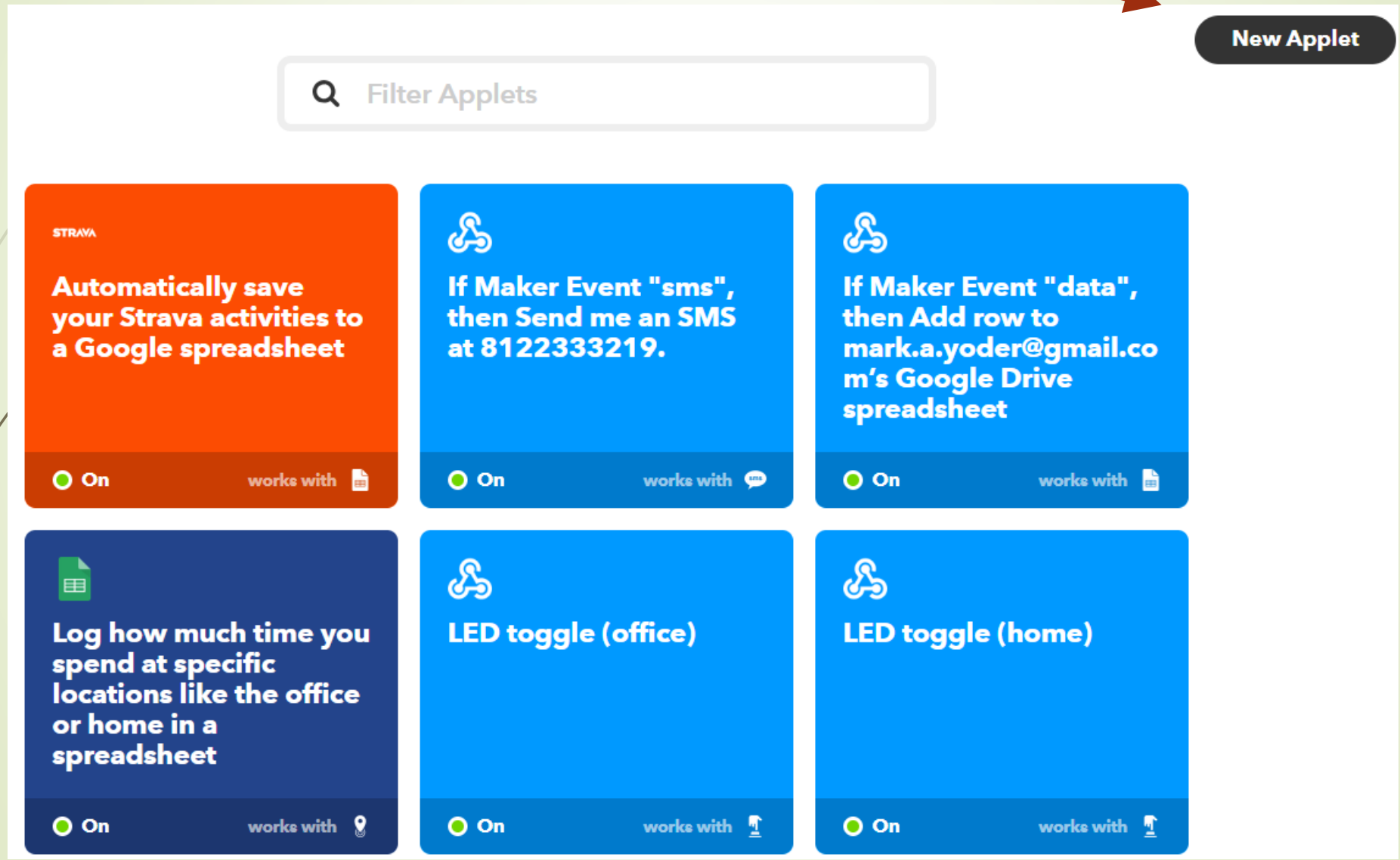
If this then that

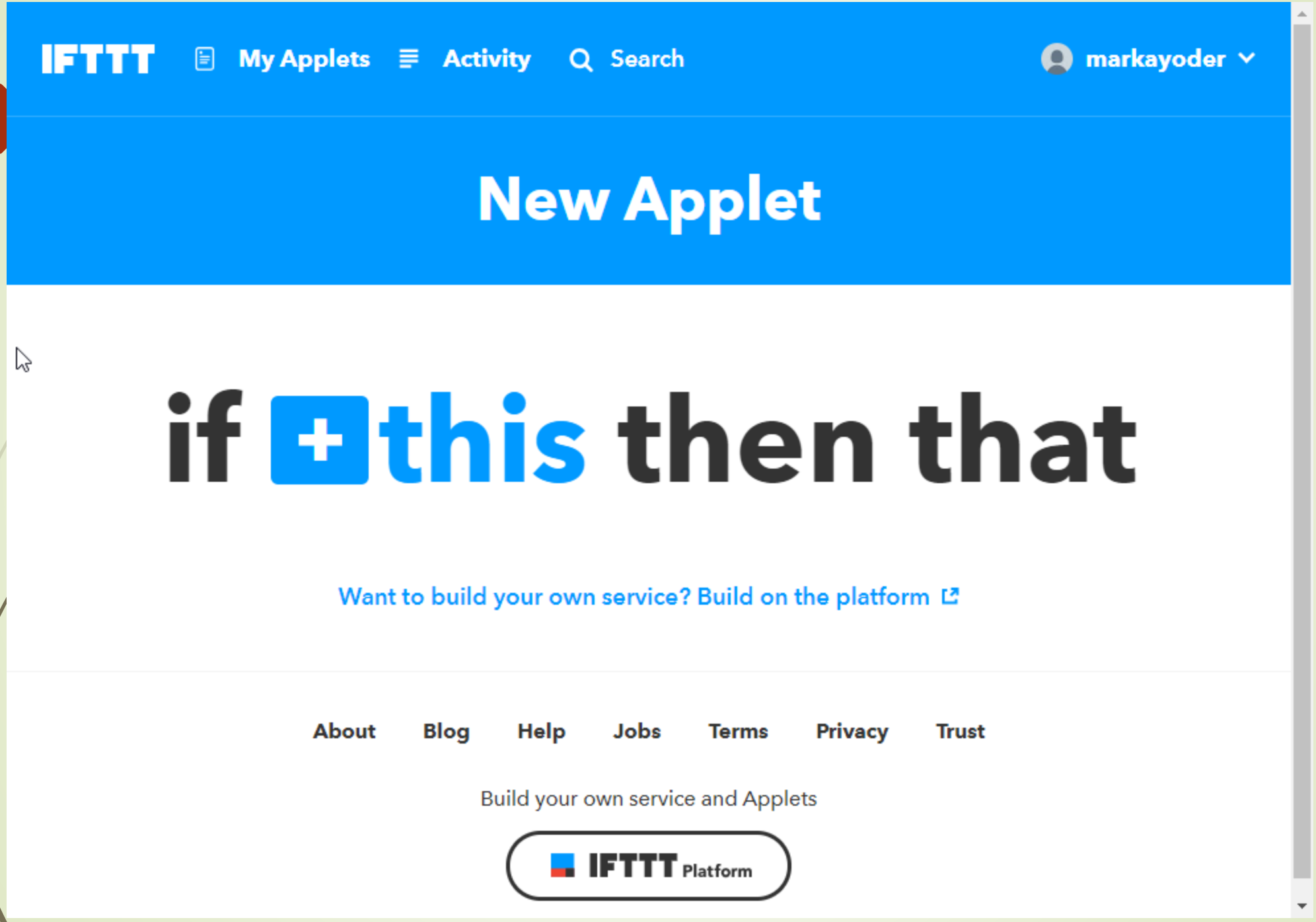
IFTTT

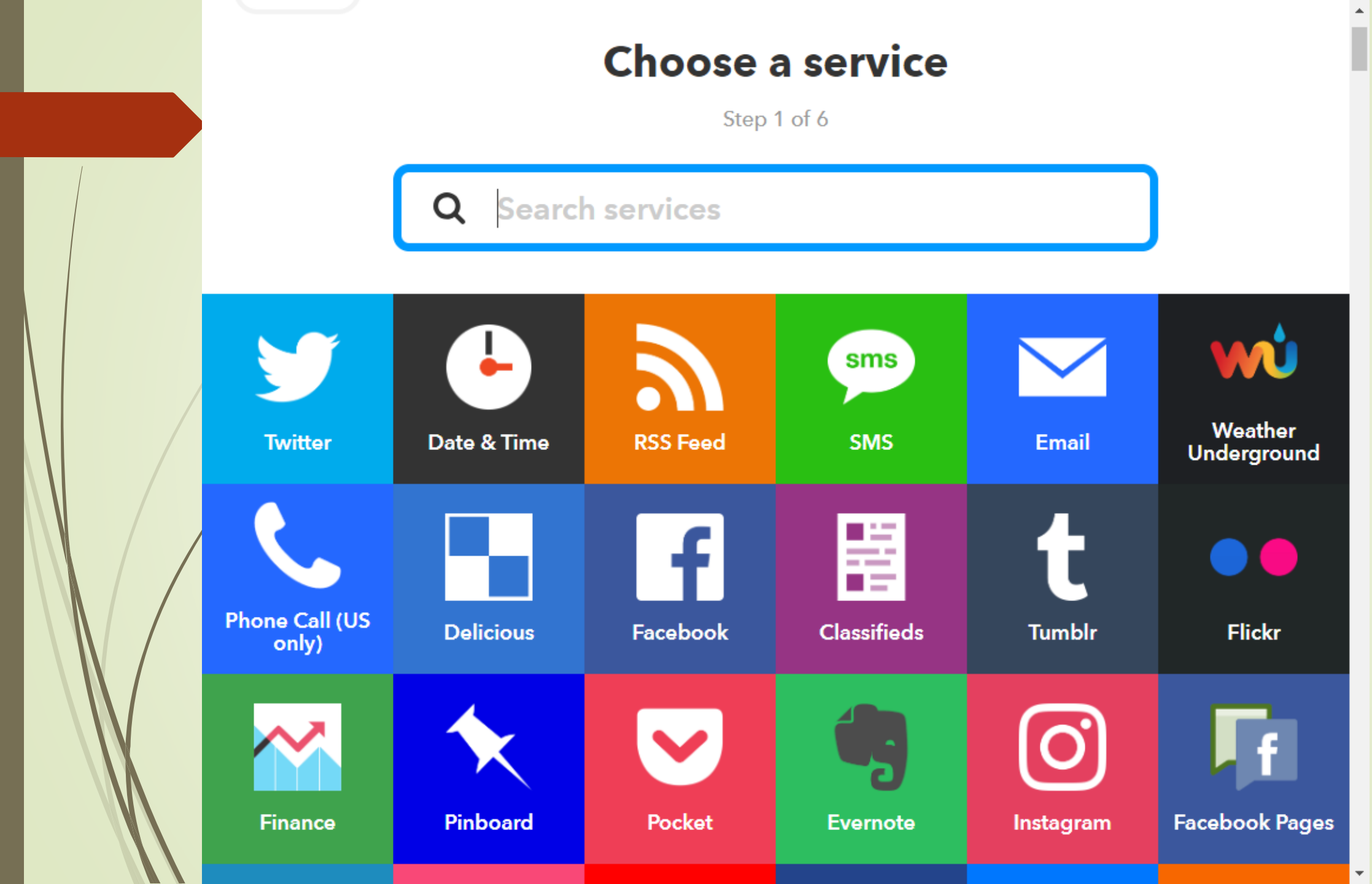
- https://ifttt.com/
- IFTTT is the free way to get all your apps and devices talking to each other. Not everything on the internet plays nice, so we're on a mission to build a more connected world



Ifttt Applets




IFTTT
My Applets
Activity
Search
markayoder
New Applet
if this then that
Want to build your own service? Build on the platform
About
Blog
Help
Jobs
Terms
Privacy
Trust
Build your own service and Applets
IFTTT Platform


Choose a service
Step 1 of 6
Search services
Twitter
Date & Time
RSS Feed
SMS
Email
Weather Underground
Phone Call (US only)
Delicious
Facebook
Classifieds
Tumblr
Flickr
Finance
Pinboard
Pocket
Evernote
Instagram
Facebook Pages

IFTTT My Applets Activity Search markayoder

Back

Choose a service

Step 1 of 6

web

Build your own service and Applets

IFTTT Platform

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)

Don't see what you're looking for? Suggest a new trigger

Complete trigger fields

Step 2 of 6

Receive a web request

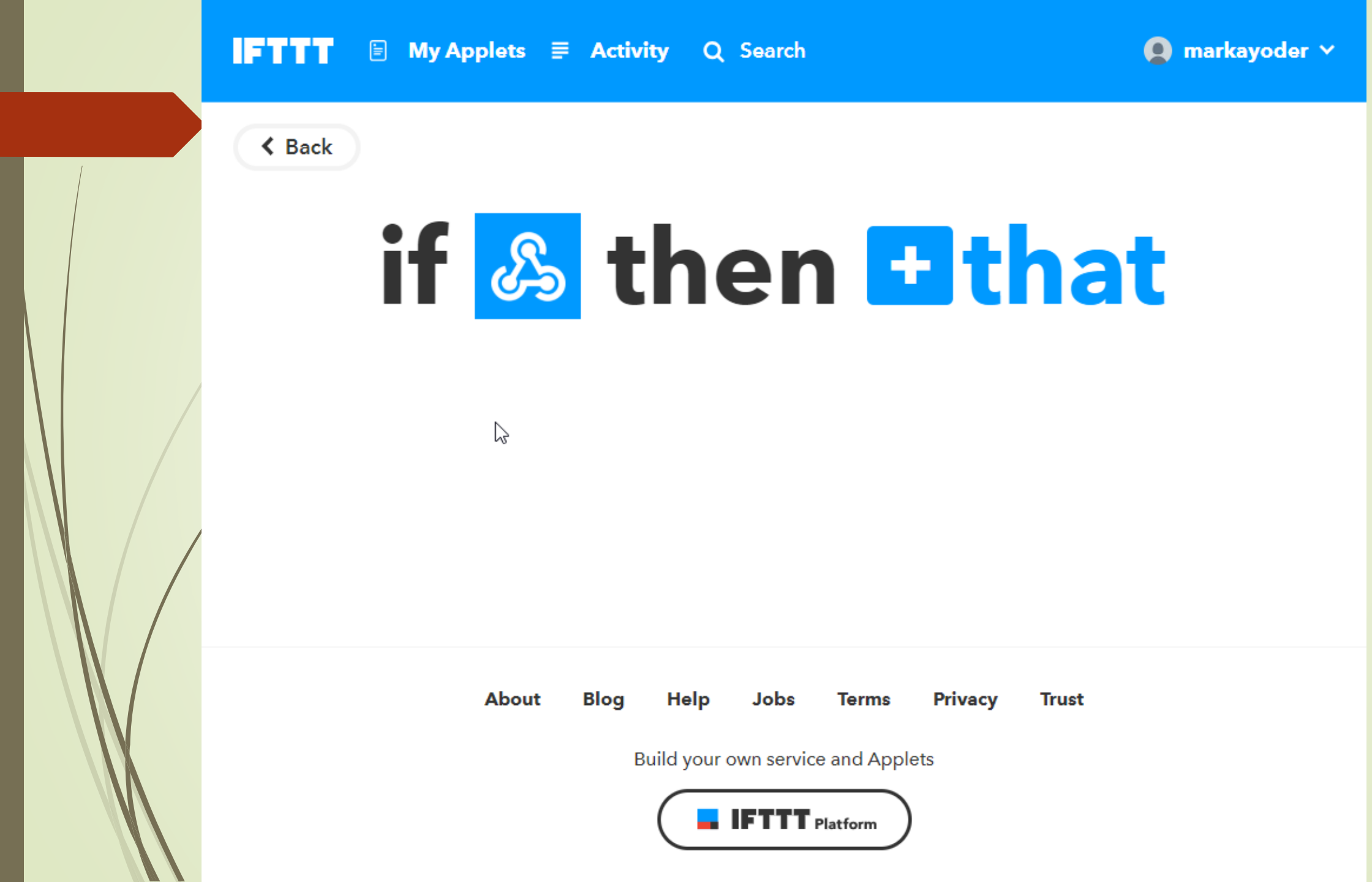
This trigger fires every time the Maker service receives a web request to notify it of an event. For information on triggering events, go to your Maker service settings and then the listed URL (web) or tap your username (mobile)

Event Name

sms

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

Create trigger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Activity
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Back
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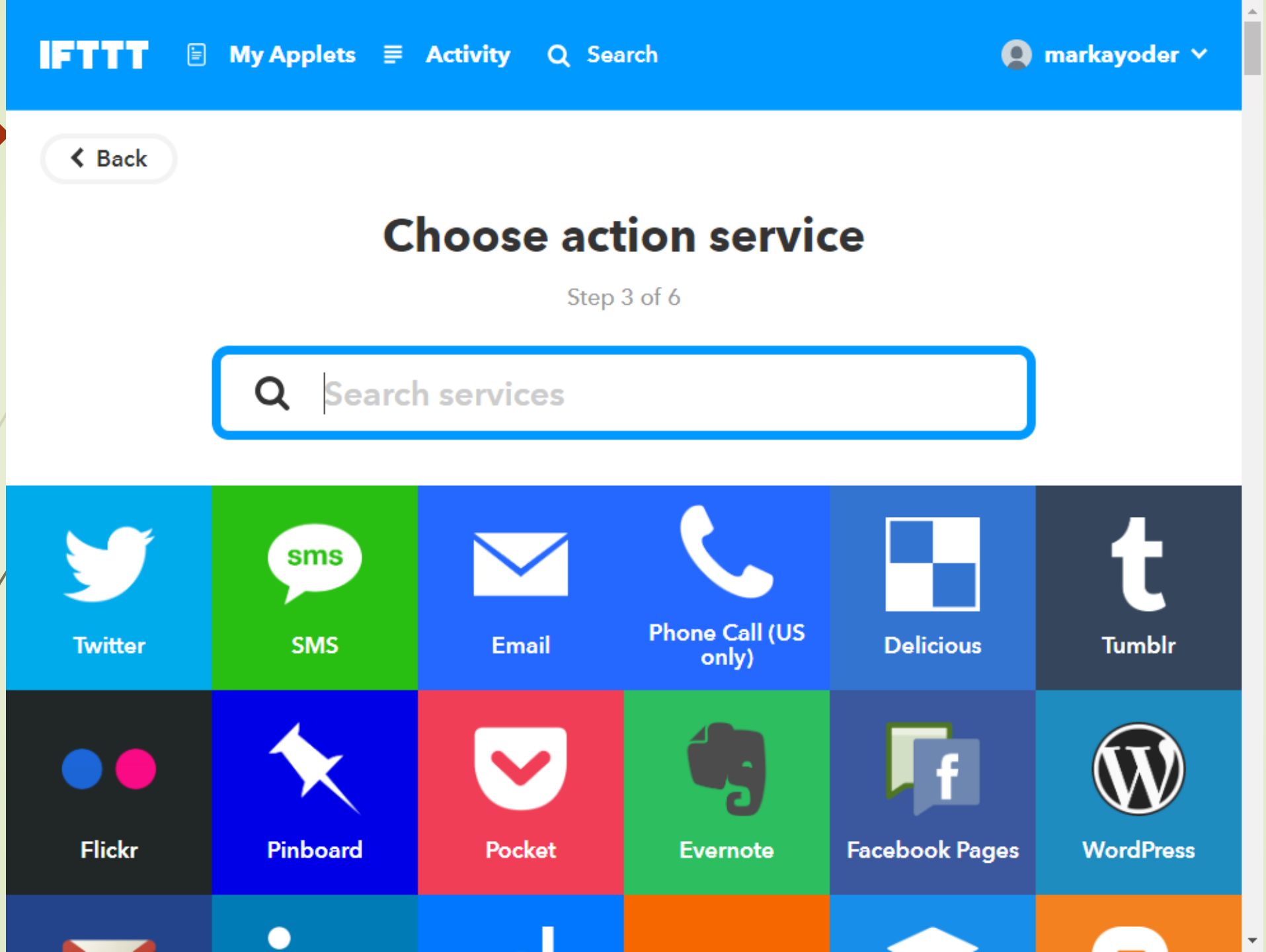
IFTTT Platform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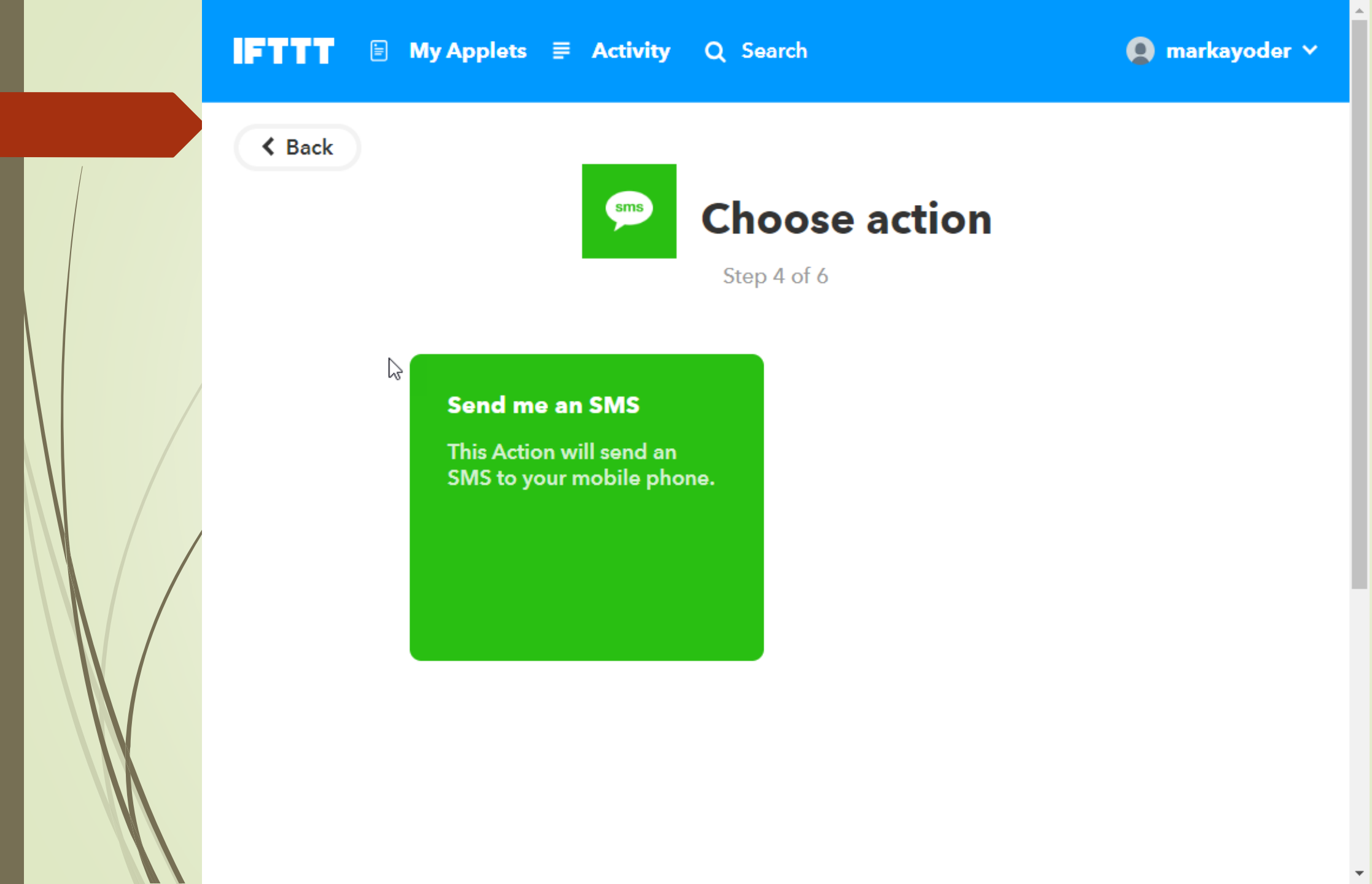
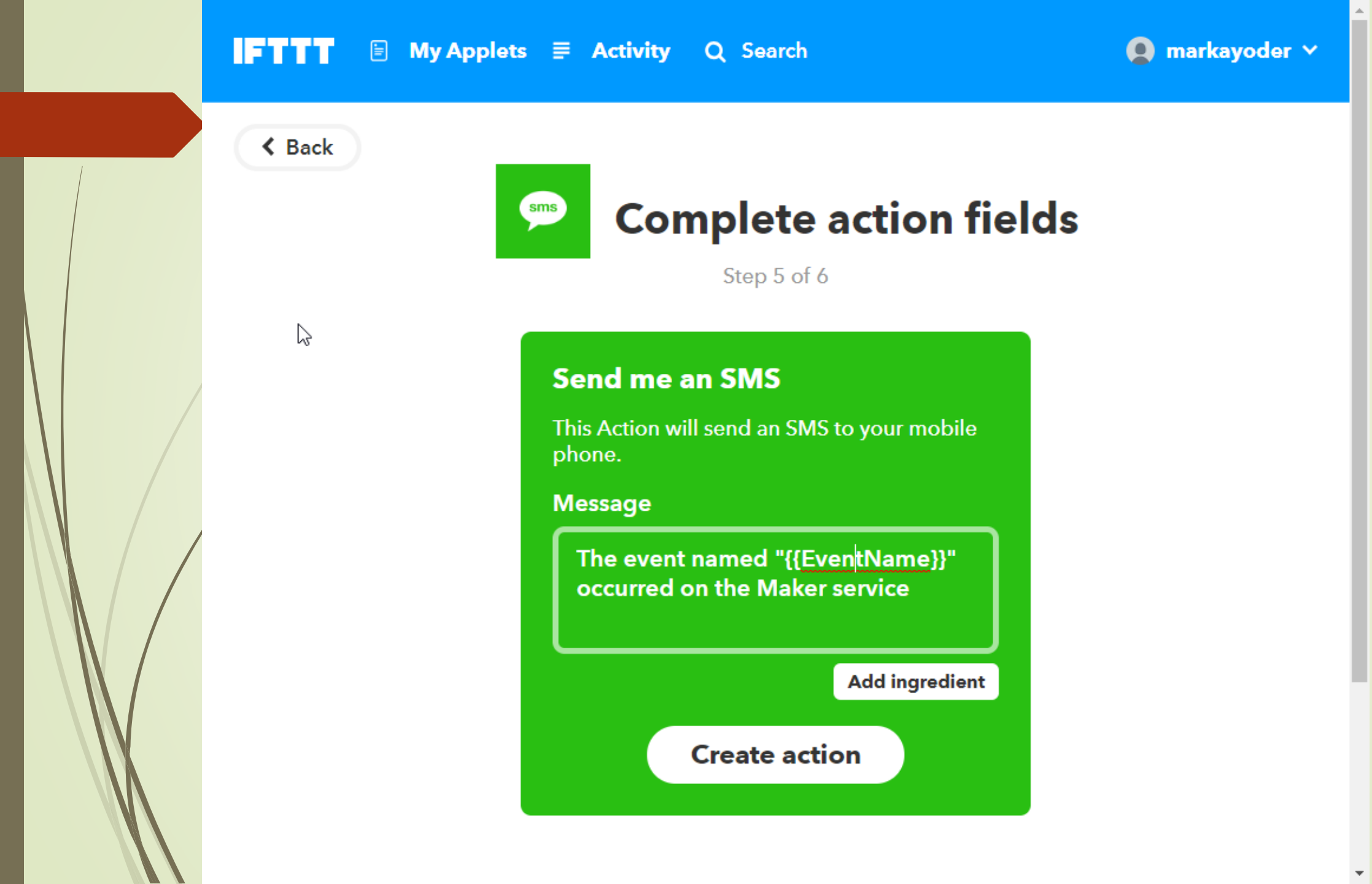
My Applets
Activity
Search
markayoder
Back
Choose action service
Step 3 of 6
Search services
Twitter
SMS
Email
Phone Call (US only)
Delicious
Tumblr
Flickr
Pinboard
Pocket
Evernote
Facebook Pages
WordPress


IFTTT
My Applets
Activity
Search
markayoder
Back
sms
Choose action
Step 4 of 6
Send me an SMS
This Action will send an SMS to your mobile phone.


IFTTT
My Applets
Activity
Search
markayoder
Back
sms
Complete action fields
Step 5 of 6
Send me an SMS
This Action will send an SMS to your mobile phone.
Message
The event named "{{EventName}}" occurred on the Maker service
Add ingredient
Create action

Complete action fields

Step 5 of 6

Send me an SMS

This Action will send an SMS to your mobile phone.

Message

The event named "{{EventName}}" occurred on the Maker service

Add ingredient

Receive a web request

- EventName
- Value1
- Value2
- Value3
- OccurredAt

Review and finish

Step 6 of 6

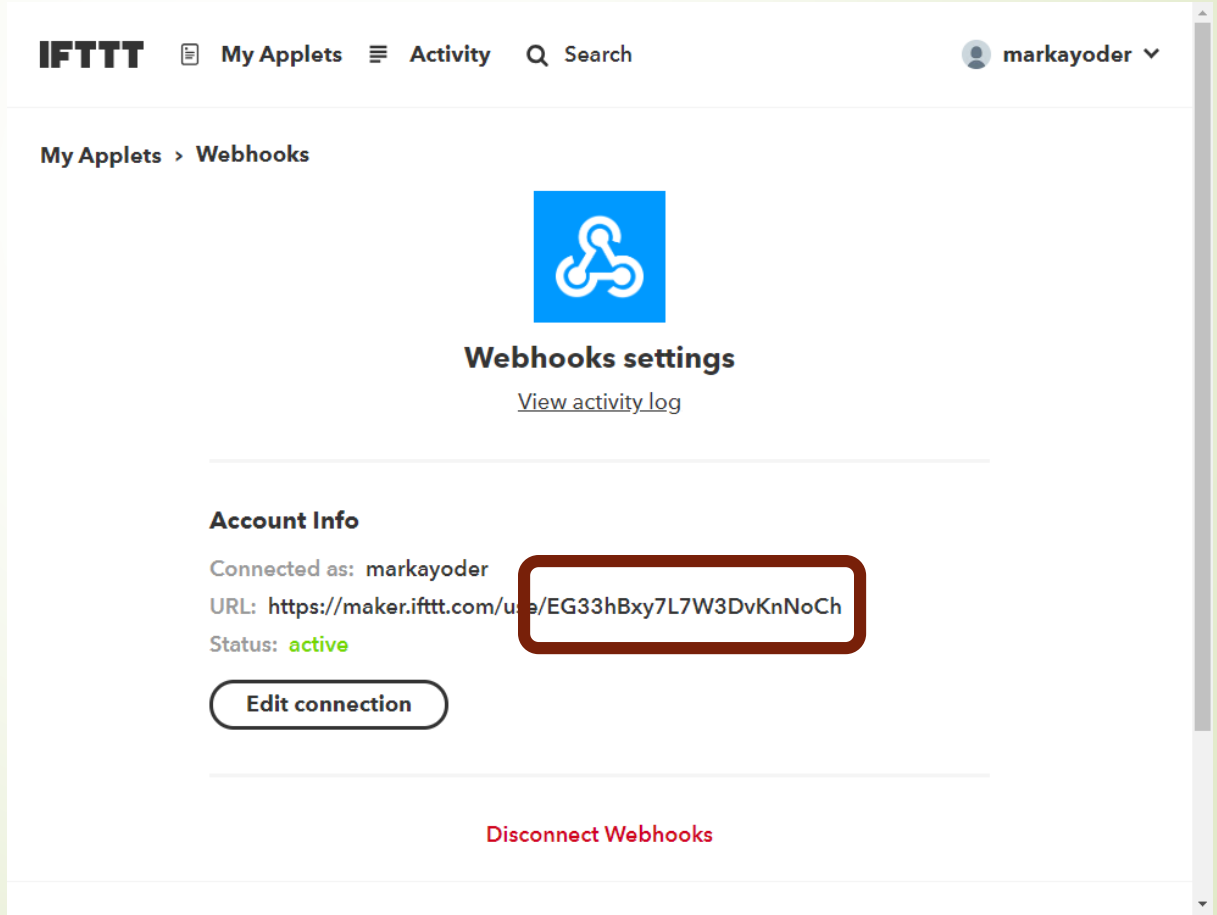
Receive notifications when this Applet runs

Trigger the event

```
#!/usr/bin/env node
var request = require('request');
var qs      = require('querystring');
var event  = 'sms';
var key    = 'bHddeE_oLPxdP0ZKABzAe4';
var string = {value1: 'My', value2: 'Test', value3: 'BeagleBone'};
var url = 'https://maker.ifttt.com/trigger/' + event + '/with/key/' + key +
            '?' + qs.stringify(string);
console.log(url);
request(url, function (err, res, body) {
  if (!err && res.statusCode == 200) {
    console.log(body);
  } else {
    console.log("error=" + err + " response=" + JSON.stringify(res));
  }
});
```

Ifttt - key

- To get the key, https://ifttt.com/services/maker_webhooks/settings



Ifttt – run it

```
bone$ cd exercises/iot/ifttt
bone$ sudo npm install -g request
bone$ export NODE_PATH=$NODE_PATH:/usr/lib/node_modules
bone$ ./send.js
https://maker.ifttt.com/trigger/sms/with/key/bHddeE_oLPxdP0ZKABzAe4?value1=My&value2=Test&value3=BeagleBone
Congratulations! You've fired the sms event
```

The event named "sms" occurred on the Maker service. v1= My v2= Test 2 v3= BeagleBone at October 17, 2018 at 11:40AM

Responding to events

- Need to setup a web server on the Bone
- This my not work on campus if the Bone can't be seen exernally

exercises/iot/ifft/receive.js

```
#!/usr/bin/env node

// From Getting Started With node.js and socket.io

// http://codehenge.net/blog/2011/12/getting-started-with-node-js-and-socket-io-v0-7-part-2/


var port  = 9090, // Port to listen on
    http  = require('http'),
    url   = require('url'),
    util  = require('util'),
    qs    = require('querystring'),
    b     = require('bonescript'),
    server,
    LED = 'P9_14';


b.pinMode(LED, b.OUTPUT);
```

exercises/iot/ifft/receive.js

```
server = http.createServer(function (req, res) {
    // server code
    var path = url.parse(req.url).pathname;
    console.log("path: " + path);

    res.write("<html>");
    if(path === '/on') {
        b.digitalWrite(LED, 1);
        res.write("LED on<br>");
    } else if (path === '/off') {
        b.digitalWrite(LED, 0);
        res.write("LED off<br>");
    }
```

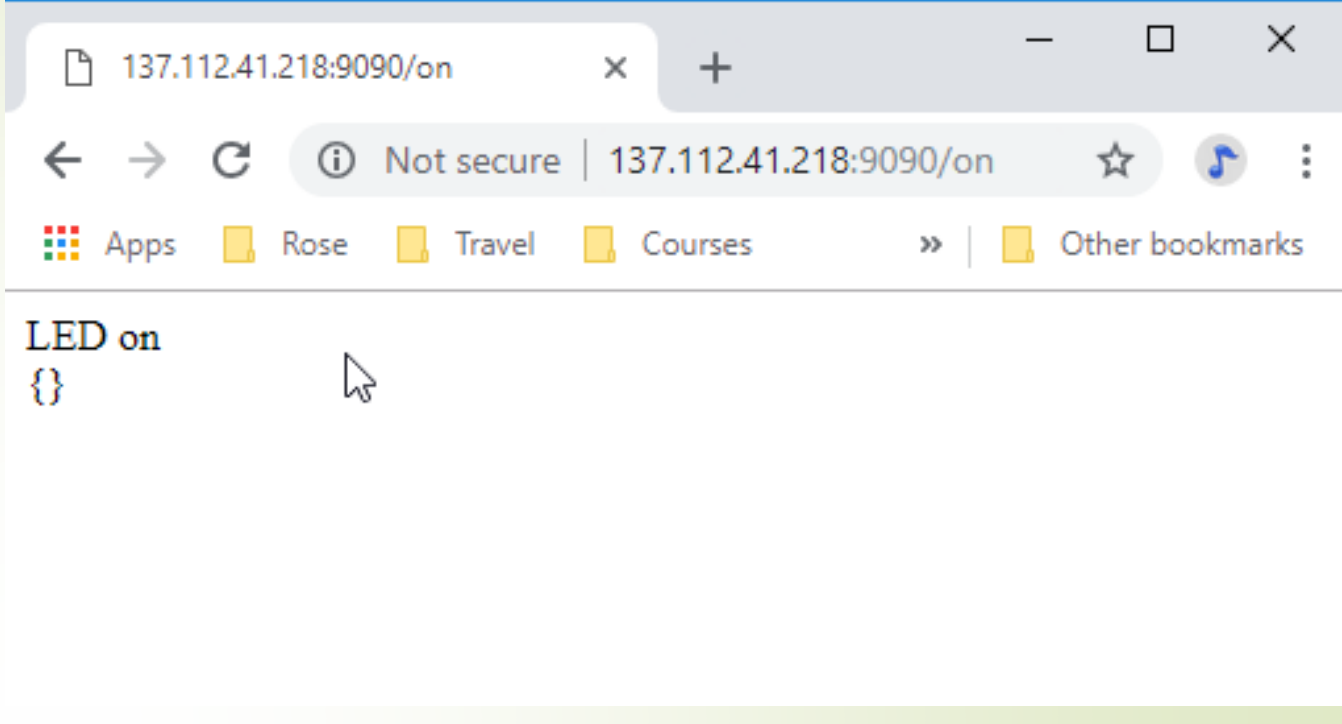
exercises/iot/ifft/receive.js

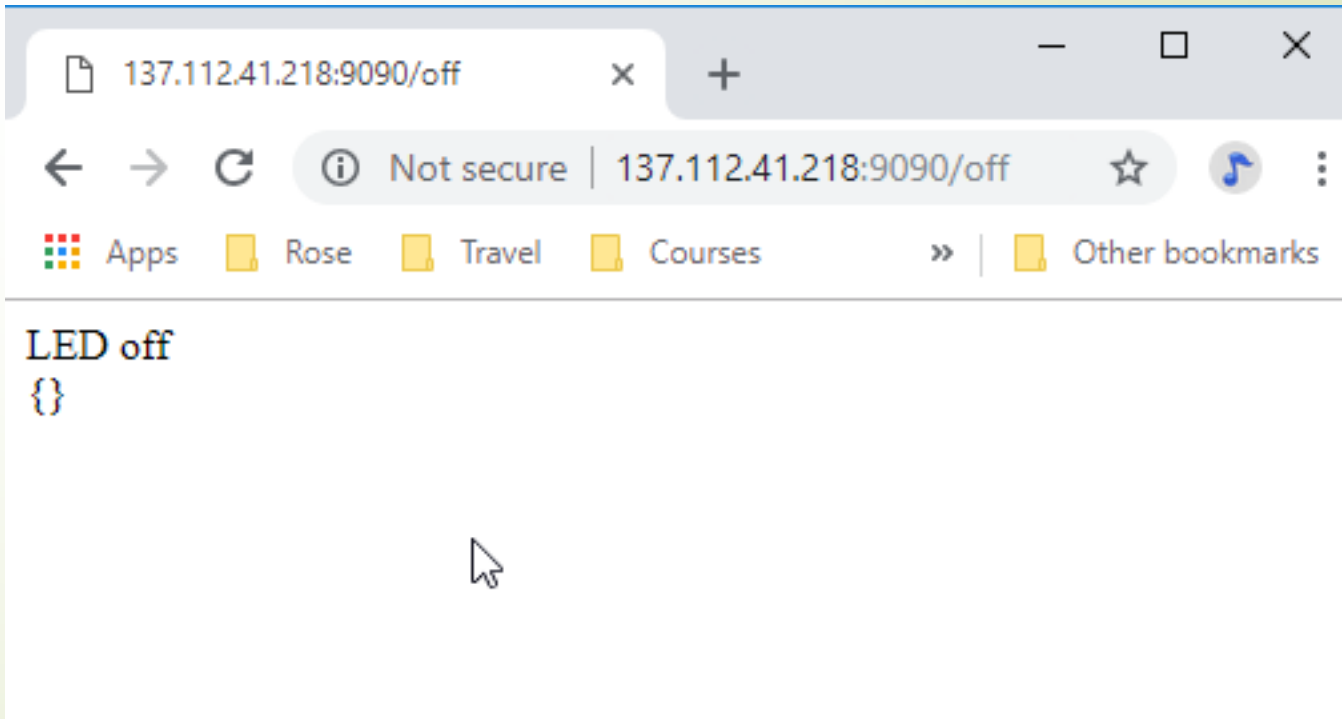
```
server = http.createServer(function (req, res) {
…
    var params =
util.inspect(qs.parse(url.parse(req.url).query));
    console.log(params);
    res.write(params);
    res.write("</html>");
    res.end();
});

server.listen(port);
console.log("Listening on " + port);
```

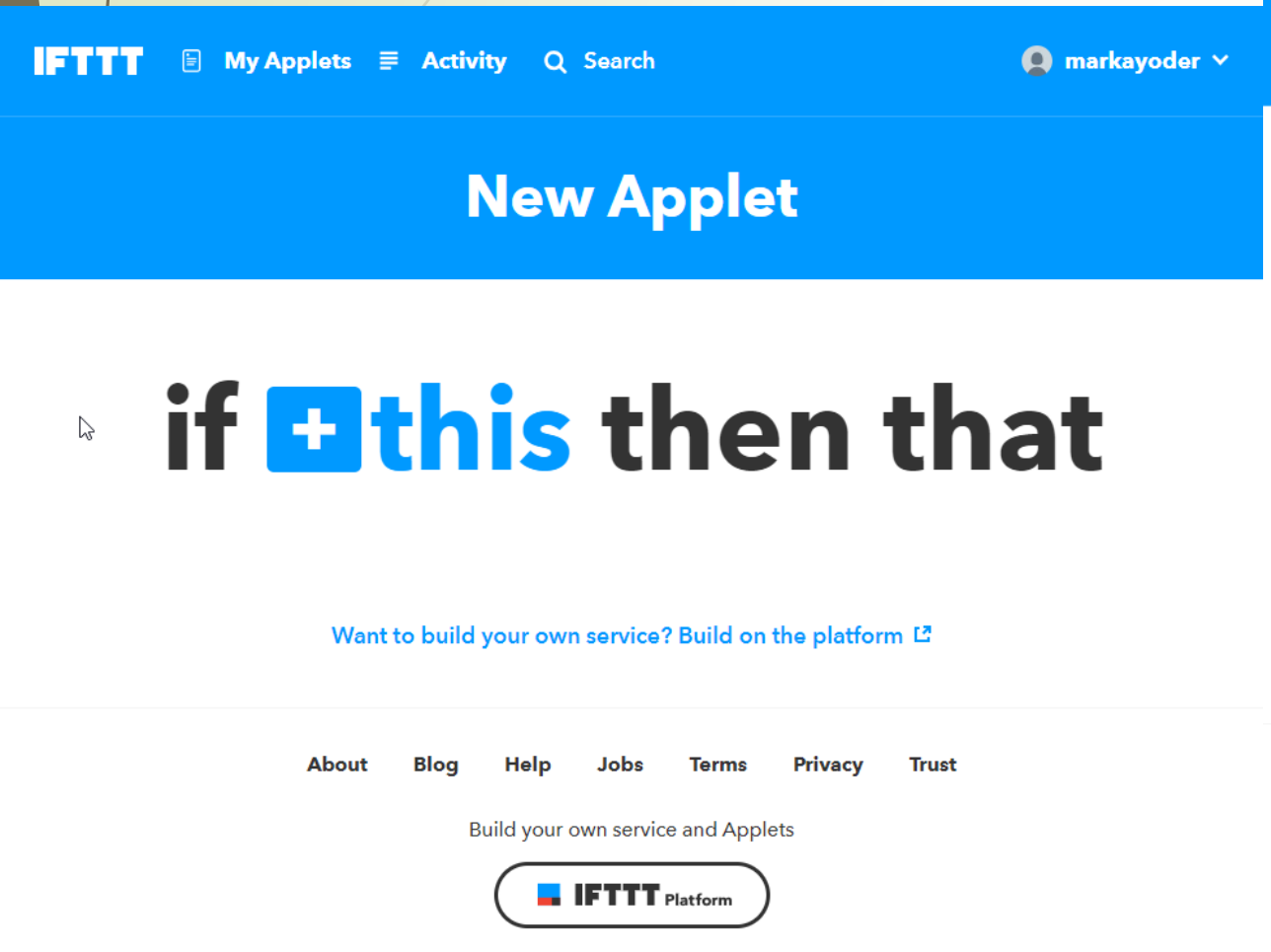
Ifttt – run it

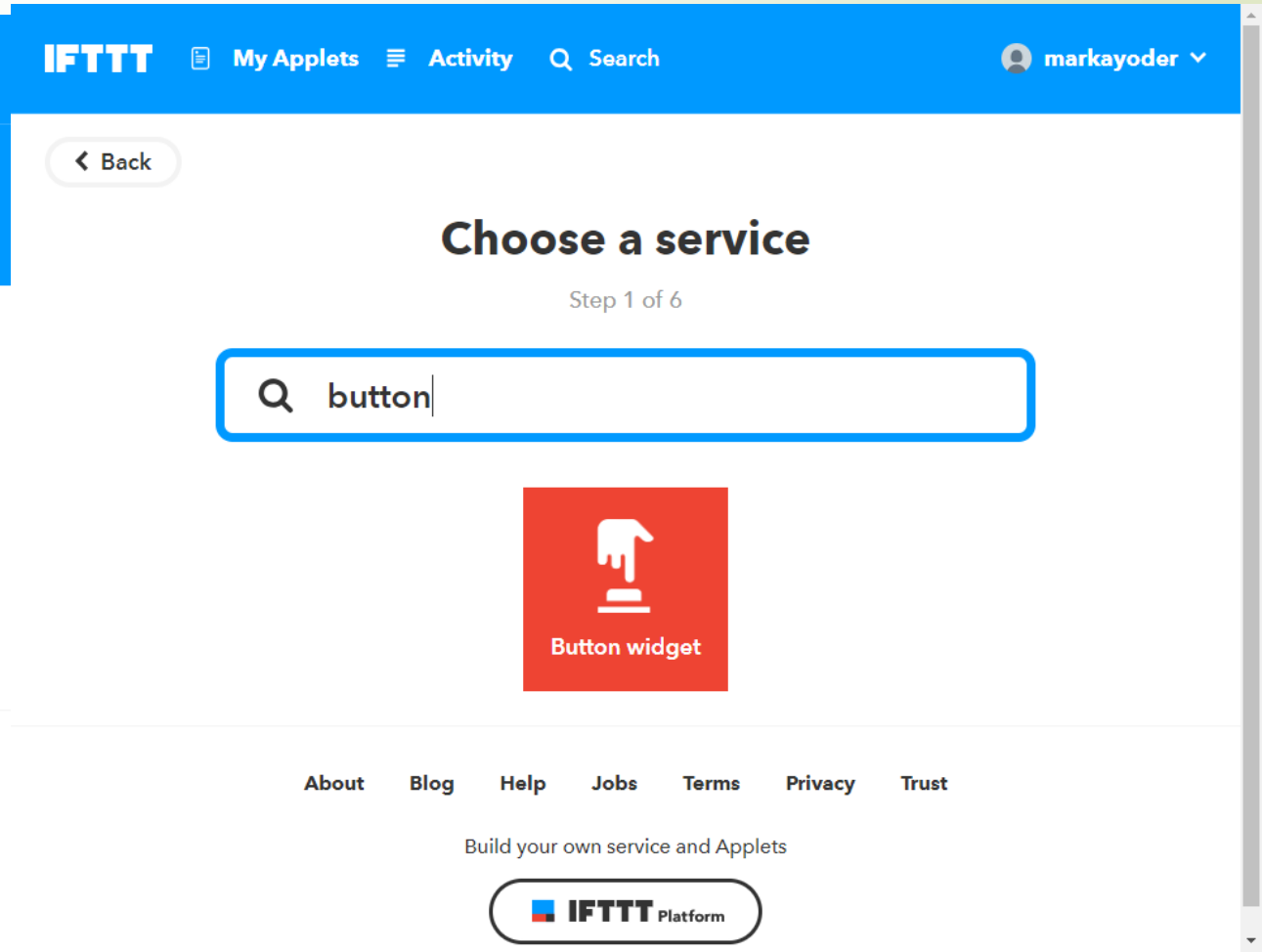
```
bone$ ./receive.js
Listening on 9090
path: /on
{}
path: /favicon.ico
{}
path: /off
{}
path: /favicon.ico
{}
```

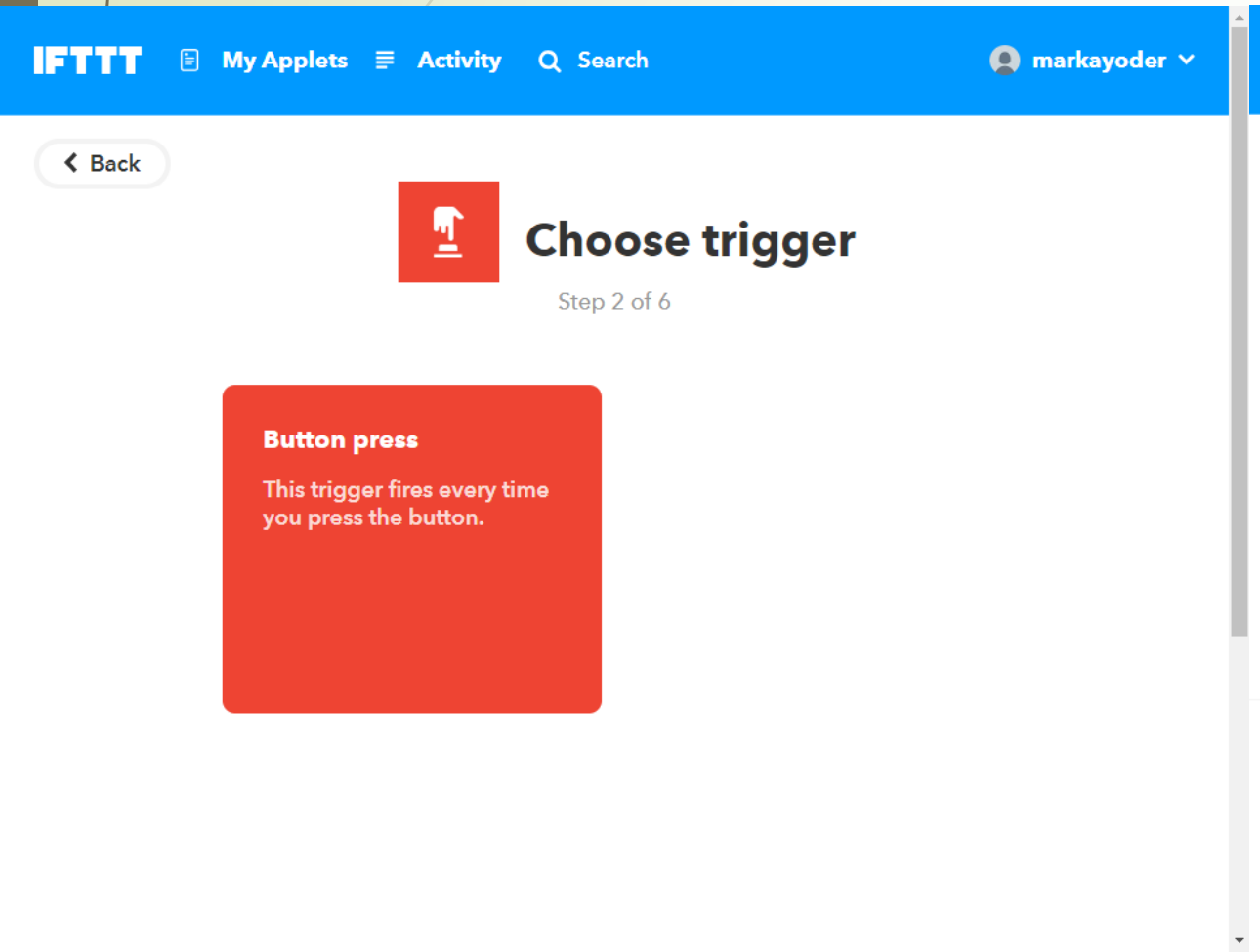




Create a trigger



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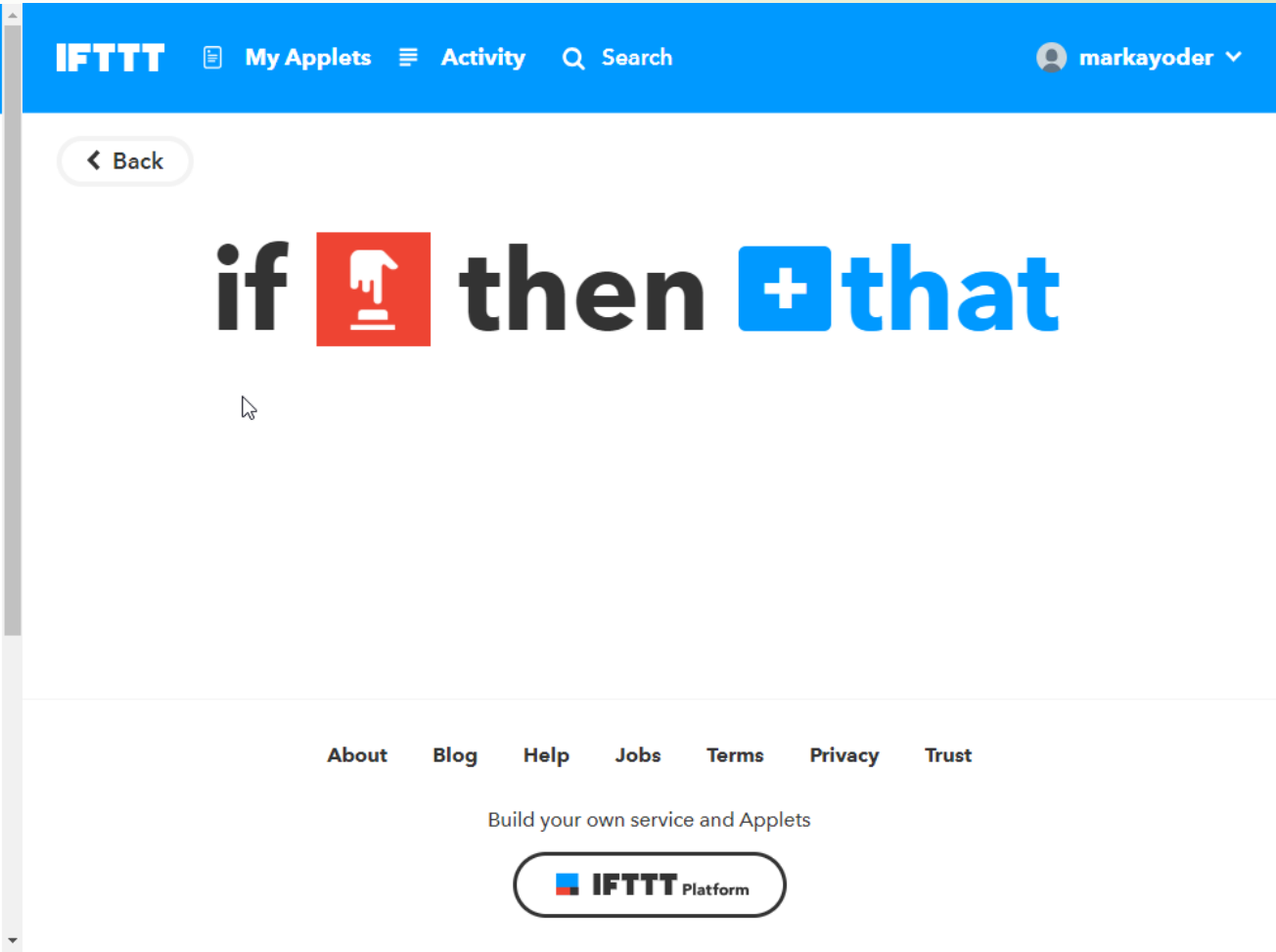
Activity
Search
markayoder
Back
Choose trigger
Step 2 of 6
Button press
This trigger fires every time you press the button.


IFTTT
My Applets
Activity
Search
markayoder
Back
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About
Blog
Help
Jobs
Terms
Privacy
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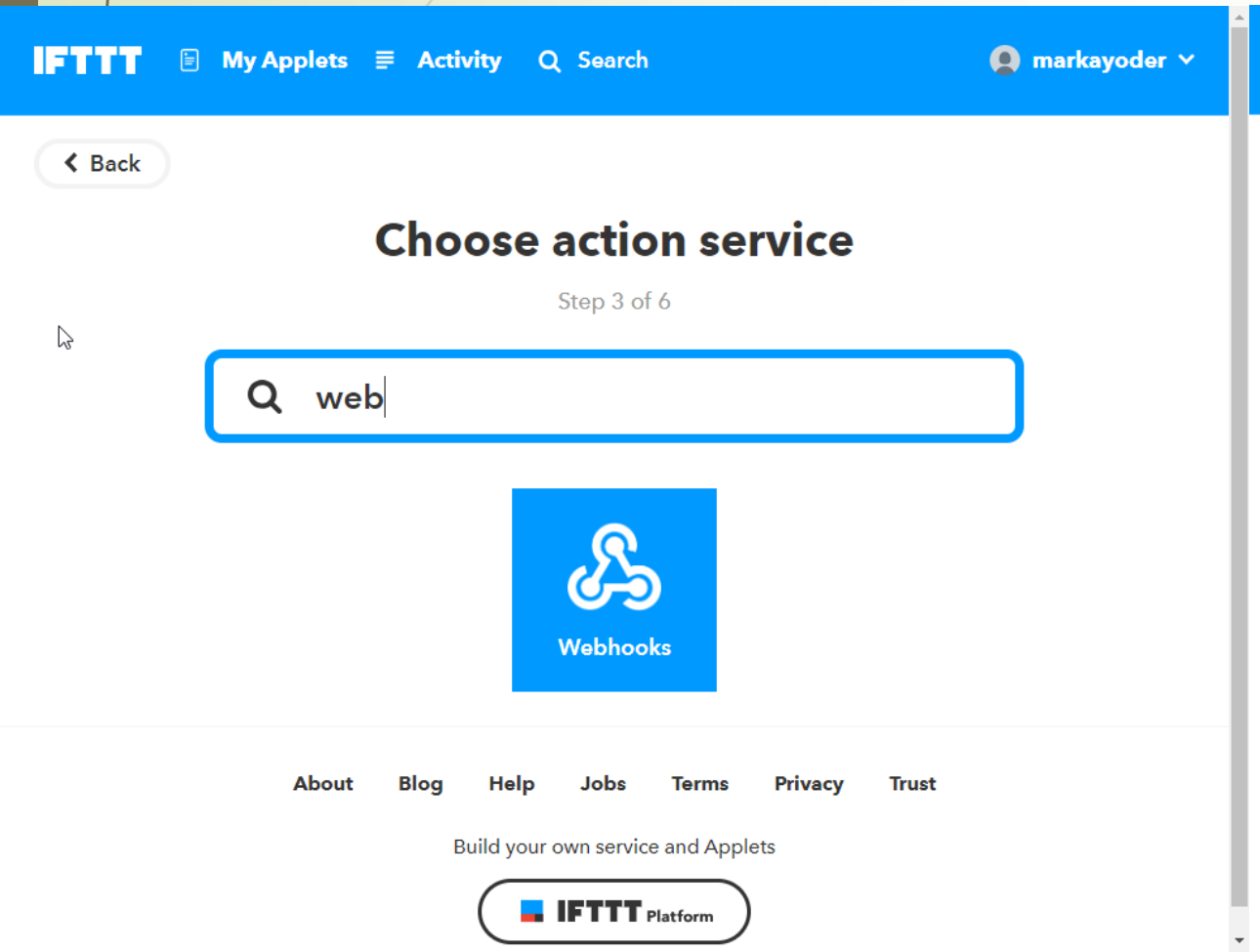
Build your own service and Applets
IFTTT Platform


IFTTT
My Applets
Activity
Search
markayoder
Back
Choose action service
Step 3 of 6
web
Webhooks
About
Blog
Help
Jobs
Terms
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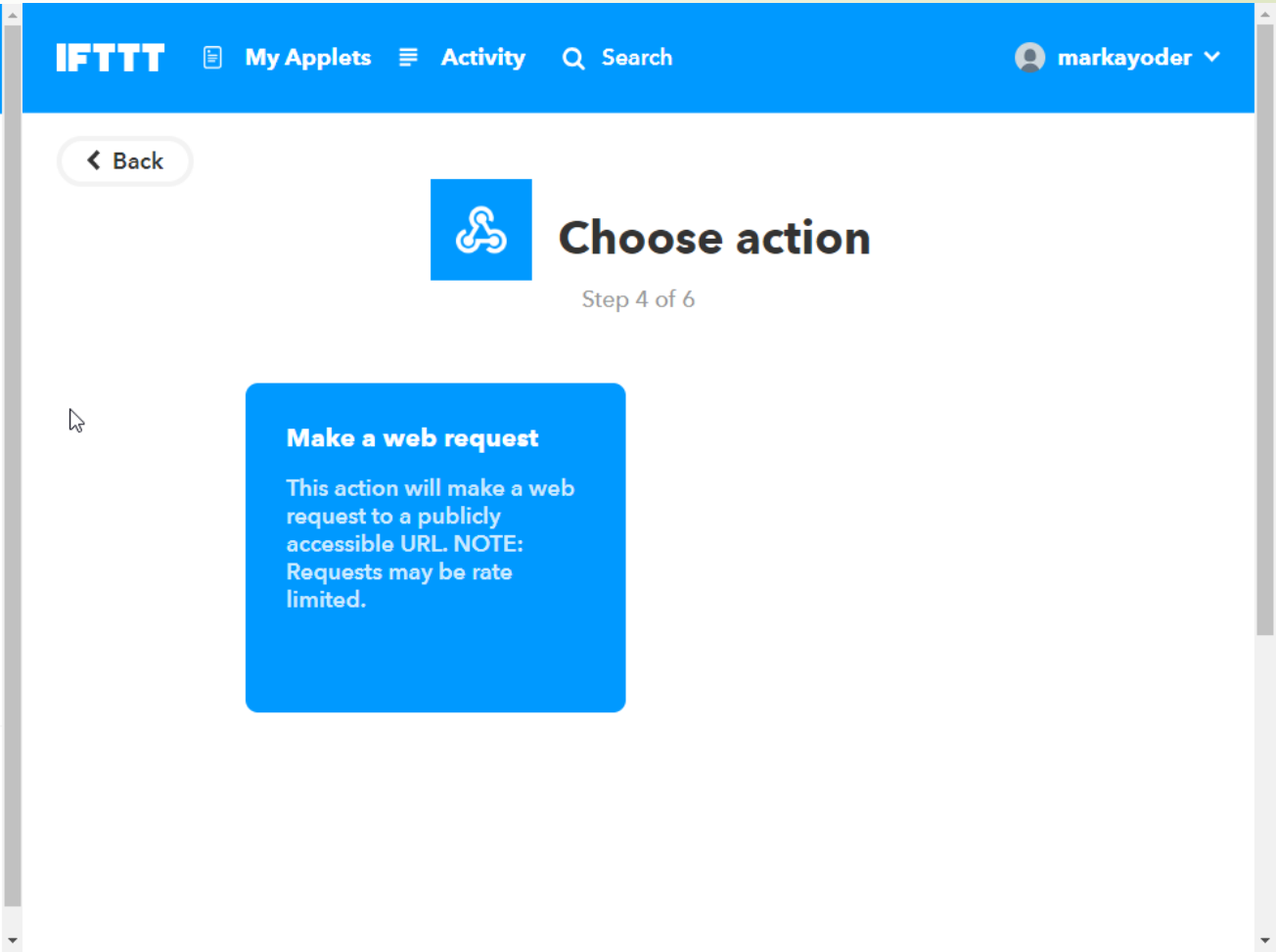

IFTTT
My Applets
Activity
Search
markayoder
Back
Choose action
Step 4 of 6
Make a web request
This action will make a web request to a publicly accessible URL. NOTE: Requests may be rate limited.

Make a web request

This action will make a web request to a publicly accessible URL. NOTE: Requests may be rate limited.

URL

https://137.112.41.218:9090/on

Surround any text with "<<>>" to escape the content

Add ingredient

URL of server on bone

Method

GET

The method of the request e.g. GET, POST, DELETE

Content Type

text/plain

Optional

Body

Test

Surround any text with "<<>>"

Add ingredient

Fill in what you want

Google Play

Search

Apps

Categories | Home | Top Charts | New Releases

Account
My subscriptions
Redeem
Buy gift card
My wishlist
My Play activity
Parent Guide

IFTTT

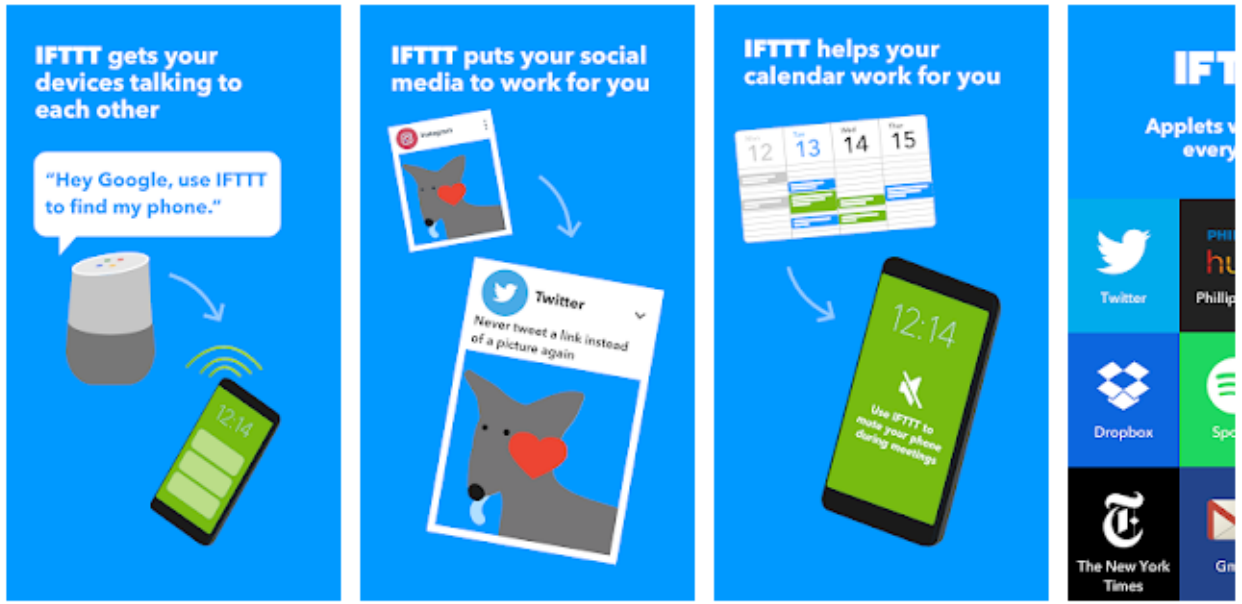
IFTTT Productivity

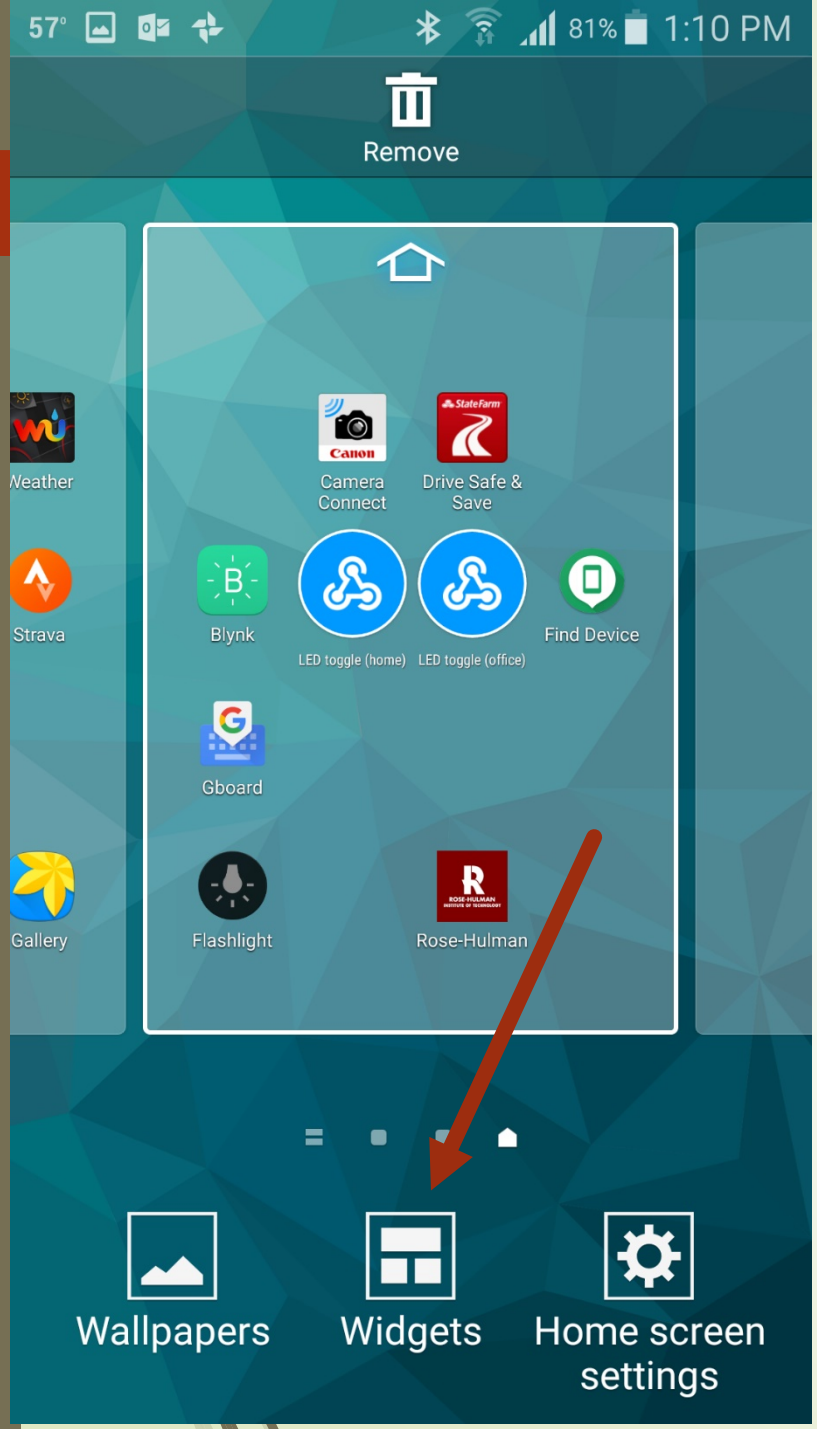
★★★★½ 120,227

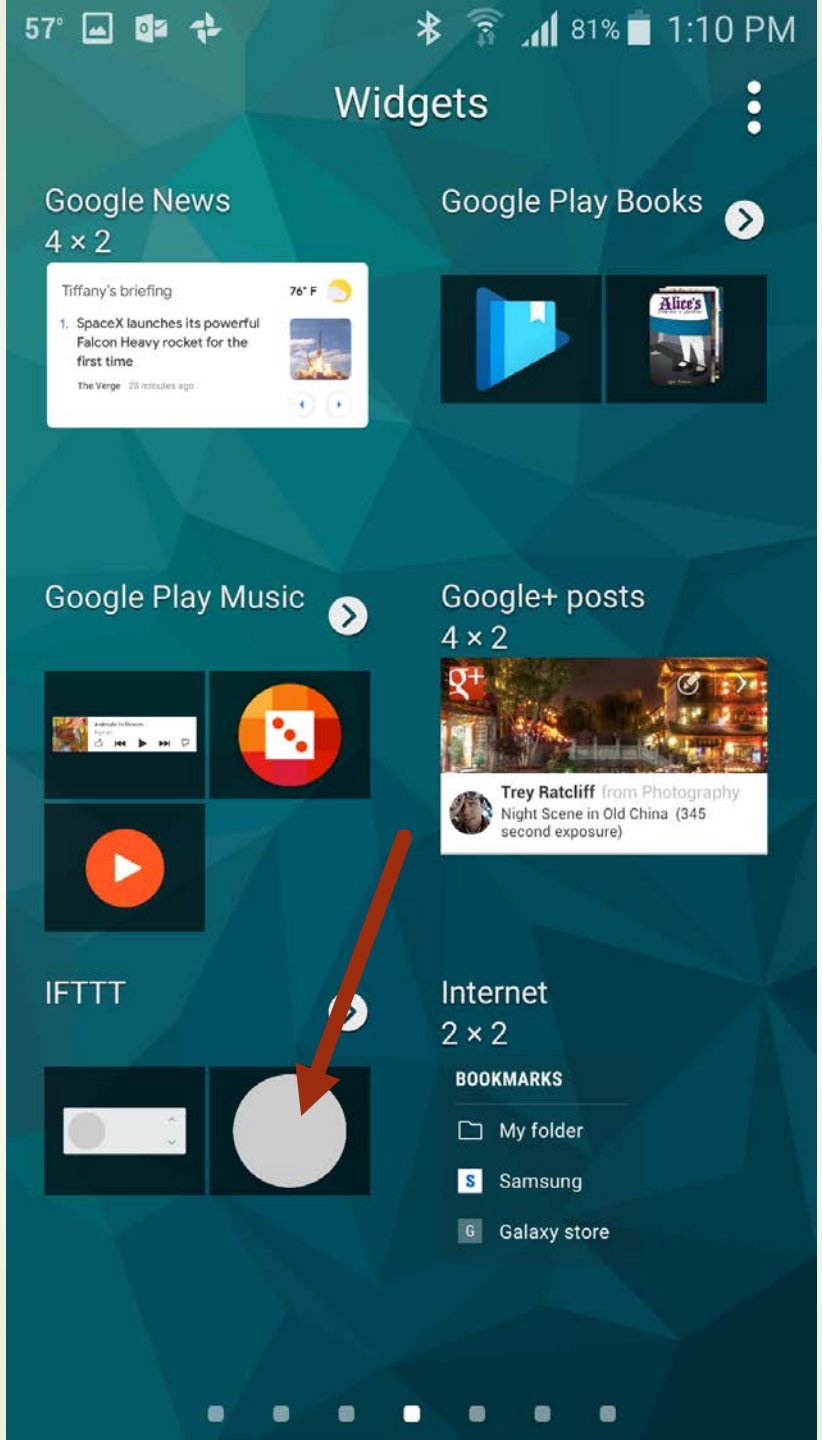
Everyone

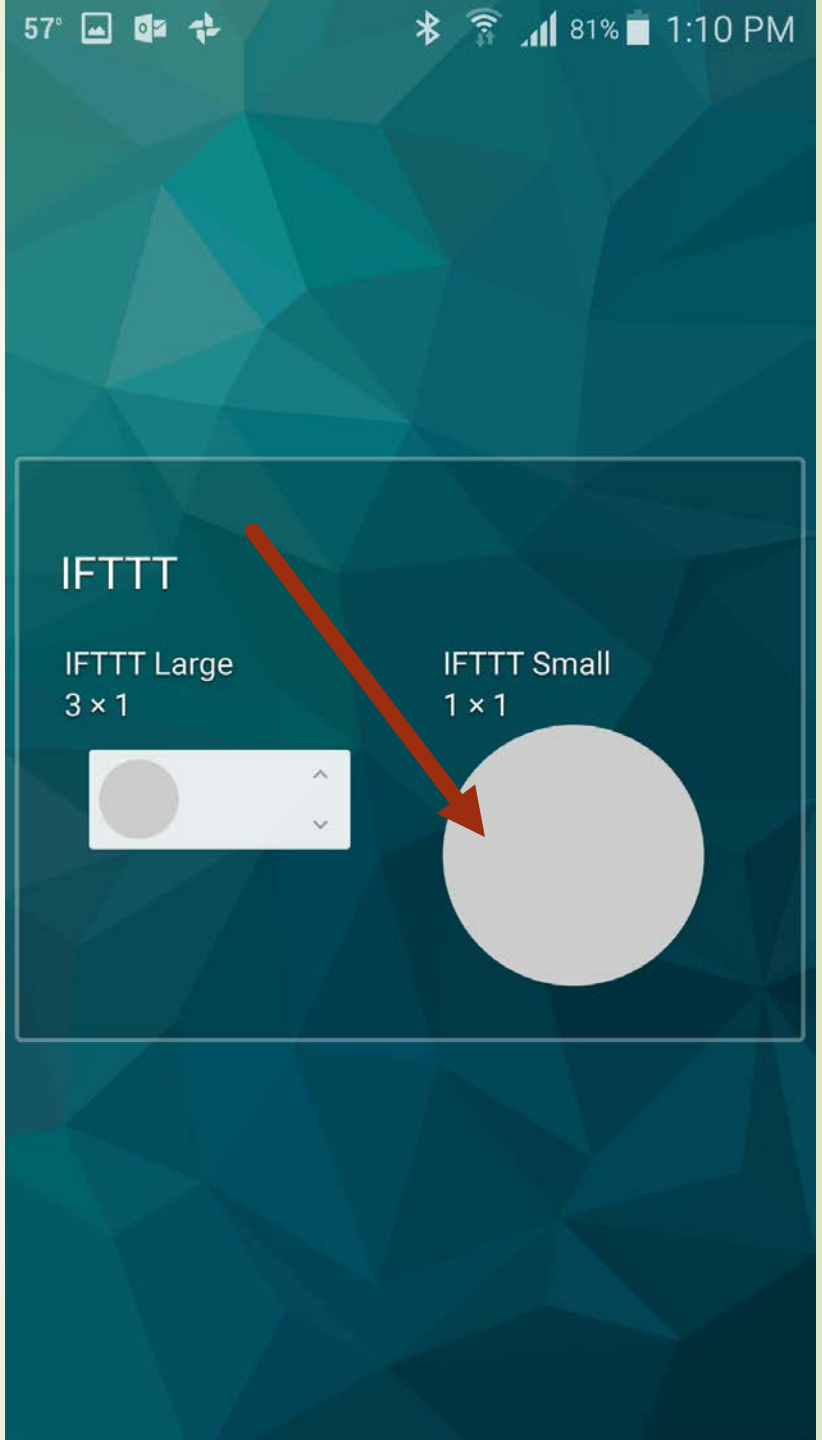
This app is compatible with all of your devices.

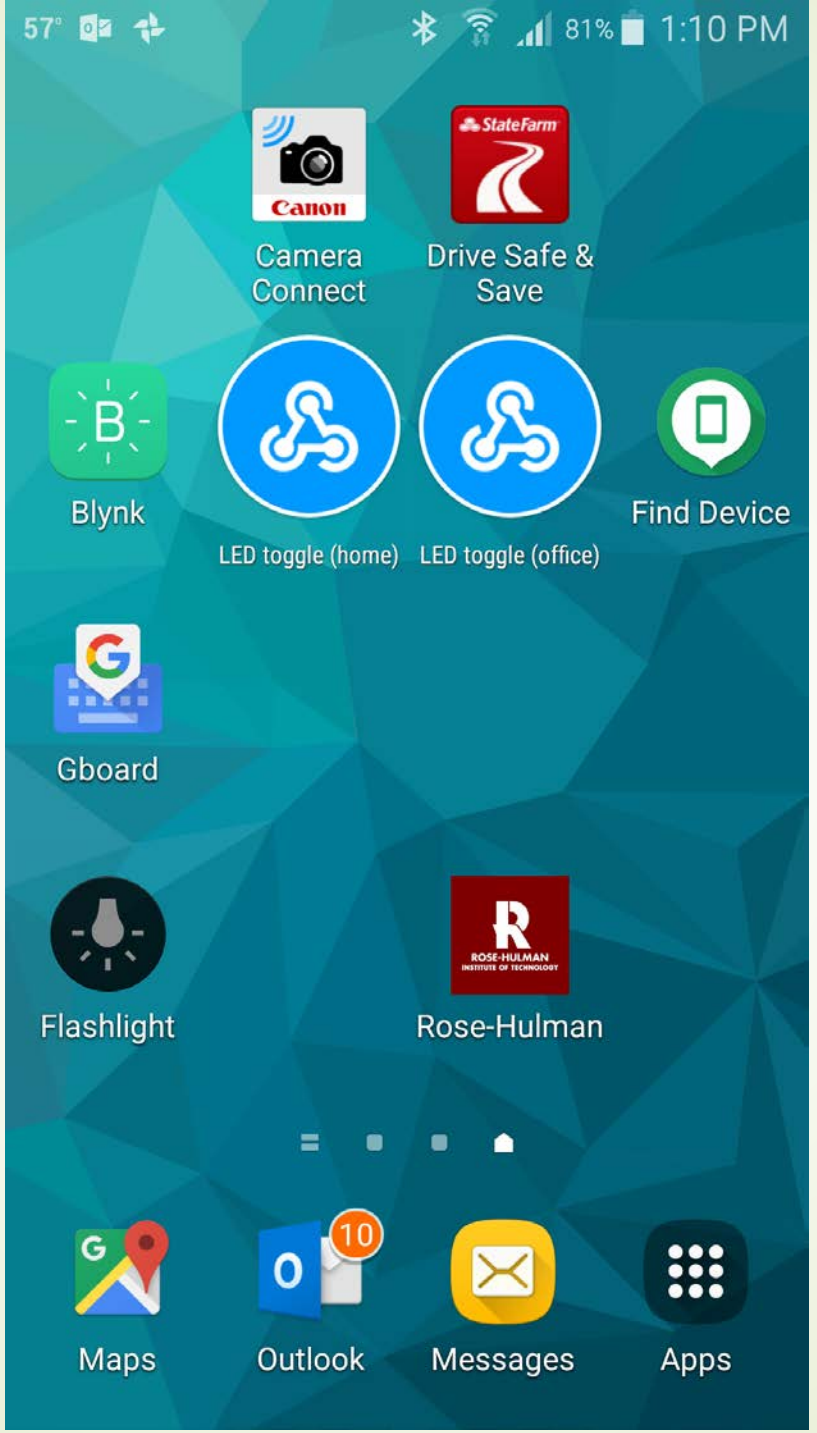
Installed




57°
81% 1:10 PM
Remove
Weather
Strava
Gallery
Camera Connect
Drive Safe & Save
Blynk
LED toggle (home)
LED toggle (office)
Find Device
Gboard
Flashlight
Rose-Hulman
Wallpapers
Widgets
Home screen settings


57°
81% 1:10 PM
Widgets
Google News
4 × 2
Tiffany's briefing
76° F
1. SpaceX launches its powerful Falcon Heavy rocket for the first time
The Verge
Google Play Books
Google Play Music
Google+ posts
4 × 2
Trey Ratcliff from Photography
Night Scene in Old China (345 second exposure)
IFTTT
Internet
2 × 2
BOOKMARKS
My folder
Samsung
Galaxy store


57°
81% 1:10 PM
IFTTT
IFTTT Large
3 × 1
IFTTT Small
1 × 1


57°
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Camera Connect
Drive Safe & Save
Blynk
LED toggle (home)
LED toggle (office)
Find Device
Gboard
Flashlight
Rose-Hulman
Maps
Outlook
Messages
Apps

Conclusion

- Ifttt is more work to get started than Blynk, but it has many, many options