

IFTTT Integration

IFTTT (IF This Then That) is an IoT recipe maker. Recipes consist of If *This* Then *That*, where *this* is a trigger and *that* is an action. LANnouncer can enable the actions, such as...

- Say a phrase
- Sound an alarm
- Flash the strobe
- Take a photo (or grab one from an IP camera), optionally uploading to Dropbox.

Background

IFTTT mostly uses pre-build channels with pre-built actions. However, these are *partnerships*, i.e. time-consuming to set up and beyond the reach of non-corporate entities. In August 2016, IFTTT brought out the Maker channel. You can now integrate REST-based services.

The problem is, LANnouncer talked to Android devices, either via LAN or SMS. LAN-based devices are probably behind a firewall and SMS doesn't even have an interface.

This was great for the initial intent of LANnouncer, but not IFTTT compatible.

So now LANnouncer supports GCM, Google Cloud Messaging... which also requires a web server. This is now in-place.

Ingredients

Set Up LANnouncer

The screenshot shows the LANnouncer app interface. At the top, there's a header with 'LANnouncer' and a 'Menu settings >' link. Below this is the 'Network (TCP) Listener' section, which includes a 'START LISTENER' button and a 'STOP SERVICES' button. A checkbox labeled 'Auto-Start Network Listener' is checked. Below it, 'Port to Listen On:' is set to '1035'. A 'Reported IP Address:' field shows '192.168.1.'. The 'GCM (Google Cloud) and WAN Messaging' section has an 'Account Email:' field with '@gmail.com'. There are three radio button options: 'Enable WAN (Network) Messaging (Premium)' (selected), 'Enable GCM', and 'No IFTTT Support'. Below these, 'Device Name:' is set to 'Samsung Galaxy Tab Pro 8.4'. The 'SMS Listener' section has a 'Disable' checkbox. At the bottom, there are 'TAKE PICTURE' and 'TAKE VIDEO' buttons. Red arrows and text provide explanations for several settings: 'Auto-Start Network Listener' defaults to 'on'; the 'Reported IP Address' is what the Android system thinks it has; 'Enable WAN' is recommended for premium, fast, and reliable actions; the 'Device Name' is filled in from Bluetooth settings; and the 'Media Folder' path is from system settings.

LANnouncer Menu settings >

Network (TCP) Listener

☒ Auto-Start Network Listener ← The socket listener defaults to "on". SMS, WAN and GCM do not.

Port to Listen On: 1035

Reported IP Address: 192.168.1. ← The I.P. Address Android thinks it has. This is what you will configure into your scripts or home automation system.

GCM (Google Cloud) and WAN Messaging

Account Email: @gmail.com

☒ Enable WAN (Network) Messaging (Premium) ↗ Use WAN if Premium, for fastest most reliable actions. Use GCM (Google) for the standard, but less reliably quick, approach. Or turn it off if you don't need external support enabling IFTTT.

☐ Enable GCM

☐ No IFTTT Support

Device Name: Samsung Galaxy Tab Pro 8.4 ← Filled in from your Bluetooth settings

SMS Listener

☐ Disable

Media Folder: /storage/emulated/0/Pictures/LANnouncer ← This is from your system settings. You may not care if you use Dropbox instead or if you don't use the camera/photo functionality.

UserId

The userId is your primary identifier at the server, attaching your devices to your registration data from Google. For convenience and simplicity, your gmail address is suggested, and is pre-filled on the LANnouncer app. However, as long as you are consistent, it can be anything unique to you, such as a GUID.

This allows you to have several devices active at once, and to be able to connect IFTTT to GCM to LANnouncer.

Device Name

The deviceName comes from your Android device; you set it from the Bluetooth Advanced settings. It plus your userId are used to uniquely identify your device's Google Cloud number.

Set Up IFTTT Maker

You need to have an IFTTT account and probably a Maker Key. These can be done at <http://www.ifttt.com>.

Restart GCM

Any time you change the email or device name, the GCM Registration should be re-run. Kill and restart LANnouncer or check and then uncheck the "Disable" checkbox for GCM.

Create a Recipe

At [your recipes page](#), select "Create Recipe".

Recipe ID 3778346

[Back to My Recipes](#)

You say "Alexa trigger sound chime"

Make a web request

Recipe Title

If You say "Alexa trigger sound chime", then make a web request

use '#' to add tags



Receive notifications when this Recipe runs

Turn off

Publish

Check now

Log

Delete

created January 24, 2016

last run March 03, 2016

run 4 times

Trigger

Say a specific phrase

This Trigger fires every time you say "Alexa trigger" + the phrase that you have defined. For instance, if you set "find my phone" as the phrase, you can say "Alexa trigger find my phone" to make your phone ring. Please use lower-case only.

What phrase?

sound chime

Use lower-case characters only

This is Alexa-Recipe Specific. Your triggers will look different.

Action

Make a web request

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

 URL **The externally-facing LANNouncer Server**

http://lannouncer.keybounce.com:1036/command
?
userName=**User Name in LANNouncer**
&deviceName=**And Device** Samsung%20Galaxy%20Tab
&c
Command to run

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

Method

GET

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

Content Type

Please select

Optional

Body

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

Update

Title and Trigger

These are LANnouncer-independent. For this example, using the Alexa channel and setting a simple voice trigger is probably easiest.

Action

For the Action, you will be issuing a "web request". It can be a Post or a Get.

If a GET, use the form:

http://lannouncer.keybounce.com:1036/command?
userName=*configured_email_on_LANnouncer*@gmail.com&deviceName=*Configured_Device_Name*&command=ALARM%3DCHIME

Where:

- The configured-email matches the value in LANnouncer
- The device name similarly matches the value *reported* in LANnouncer
 - *This allows you to target different devices easily*
- The normal LANnouncer commands (ALARM=SIREN, SPEAK=HELLO WORLD, etc.) are URL-escaped...
 - Equals (=) becomes %3D
 - Space () becomes %20
- The server is, as shown, lannouncer.keybounce.com:1036

Content and Body

No Content or Body are necessary if sending a

That's It

Obviously there was a lot more to getting all of this to work, on the back end, but that should be all you have to do to trigger LANnouncer with IFTTT.