

# Home Assistant



Make your home  
come alive with  
Home Assistant

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Sibrecht Goudsmedt

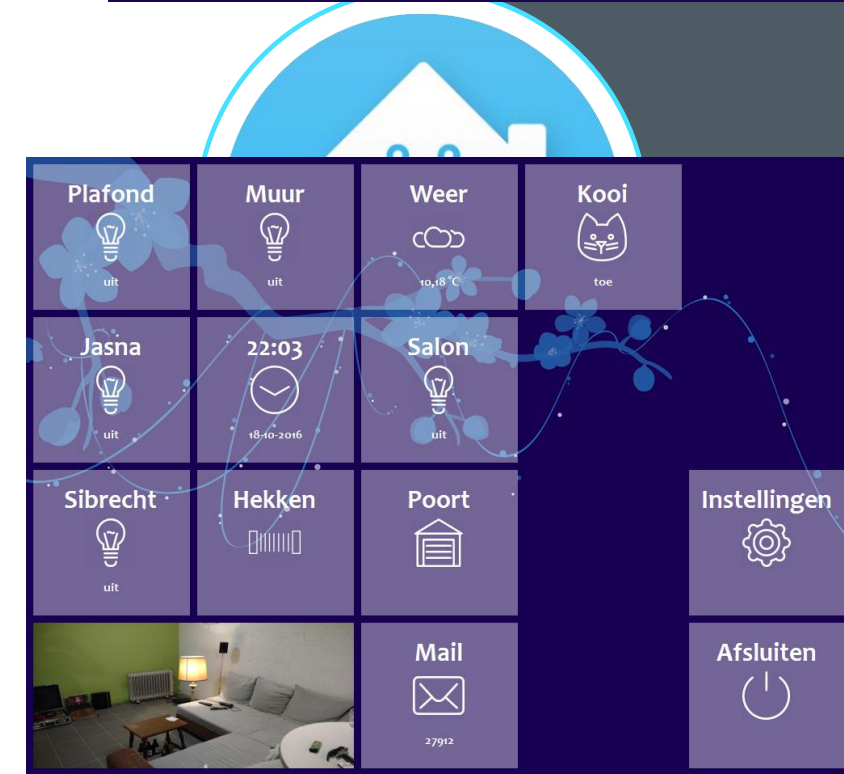
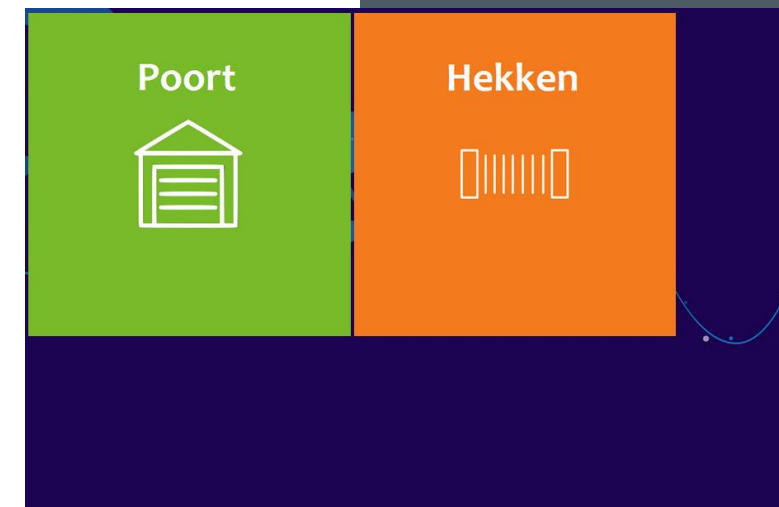
# What to talk about?

- How I started
- What is Home Assistant?
- What integrations?
- Tips
- MQTT Intermezzo
- Do It Yourself



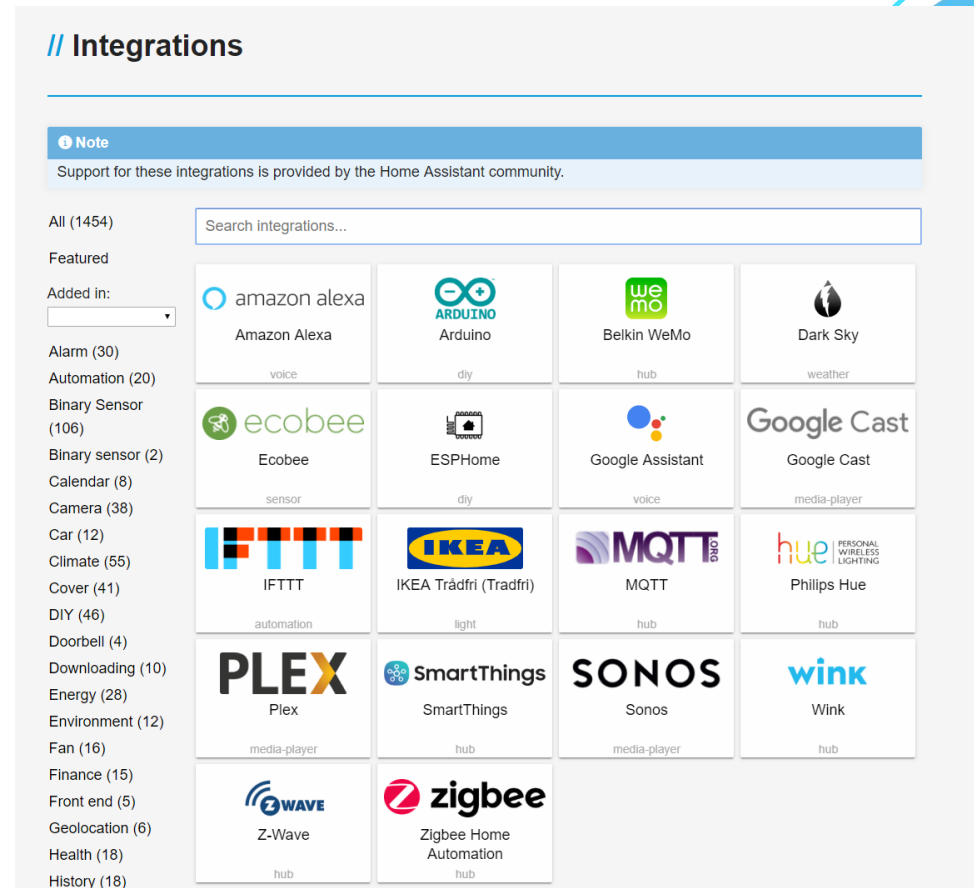
# How I Started

- Arduino Web Server - Arduino
- Php Server and C# interface - Laptop
- C# server with http – 2 Laptops
- C# server with mqtt – 2 Laptops
- Python server – Rpi & Laptop
- Home Assistant – Nuc & Telegram



# What is Home Assistant?

- Domotica Software – No Hardware
- Two weekly updates
  - Breaking changes!
- Integrations
  - v0.96 -> 1454 components
- Python 3.7
- Young: about 5 years
  - Big community



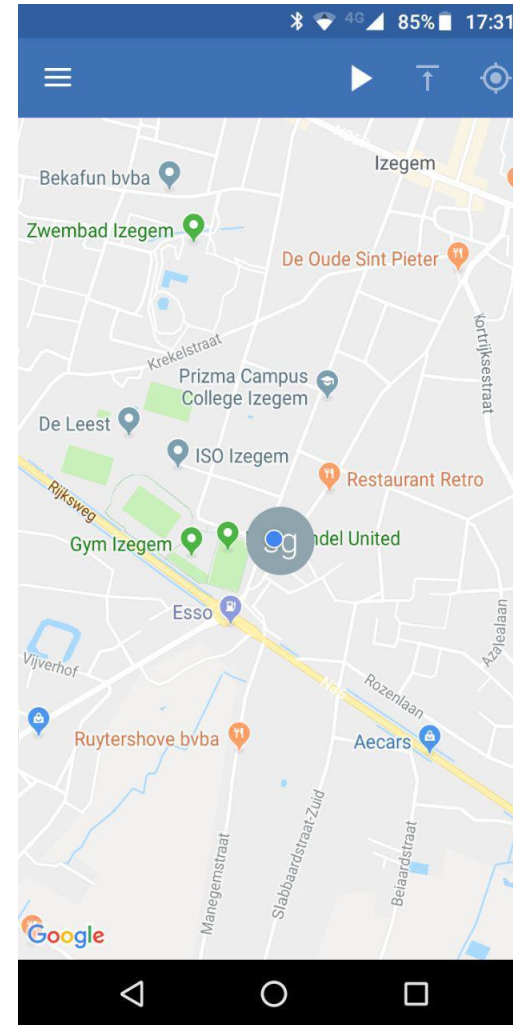
# What integrations?

- Owntracks
- Google Home
- Telegram
- IKEA Tradfri
- MQTT & Arduino custom code
- Snapcast



# OwnTracks - Location

- Turn everything off when no one home
- Automate only when home



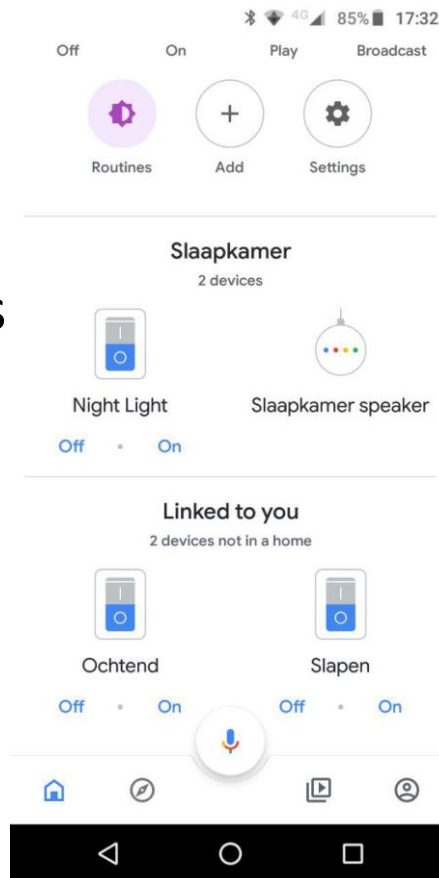
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# Google Home, Telegram & Tradfri

- Bedroom light control with google alarm
- Play music in some rooms
- Control garage port





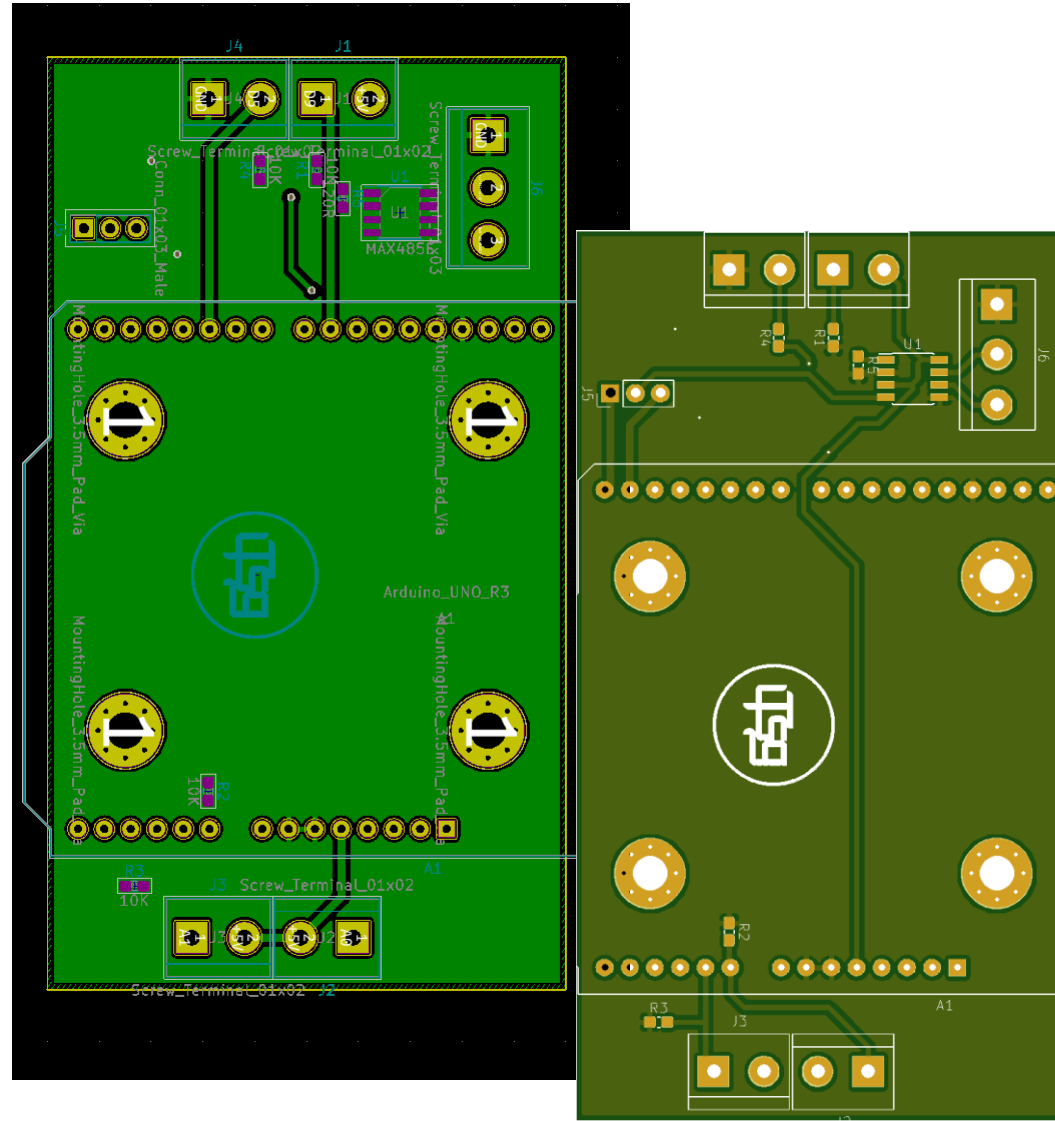
# What integrations?

- Owntracks
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- MQTT & custom code/PCB
- Snapcast



# MQTT & custom code/PCB

- Dmx protocol converter – light
- Garage port sensor and control
- Custom movement sensor
- Light/audio switch



# What integrations?

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# Snapcast



- Spotify
- Webradio
- Different rooms
- Synchronized in every room



# Tips

1. Always check  
before YAML  
before restarting  
server

## Configuration validation

Validate your configuration if you recently made some changes to your configuration and want to make sure that it is all valid

Configuration valid!

CHECK CONFIG

## Configuration reloading

Some parts of Home Assistant can reload without requiring a restart. Hitting reload will unload their current configuration and load the new one.

RELOAD CORE RELOAD GROUPS RELOAD AUTOMATIONS RELOAD SCRIPTS

## Server management

Control your Home Assistant server... from Home Assistant.

RESTART STOP



# Tips

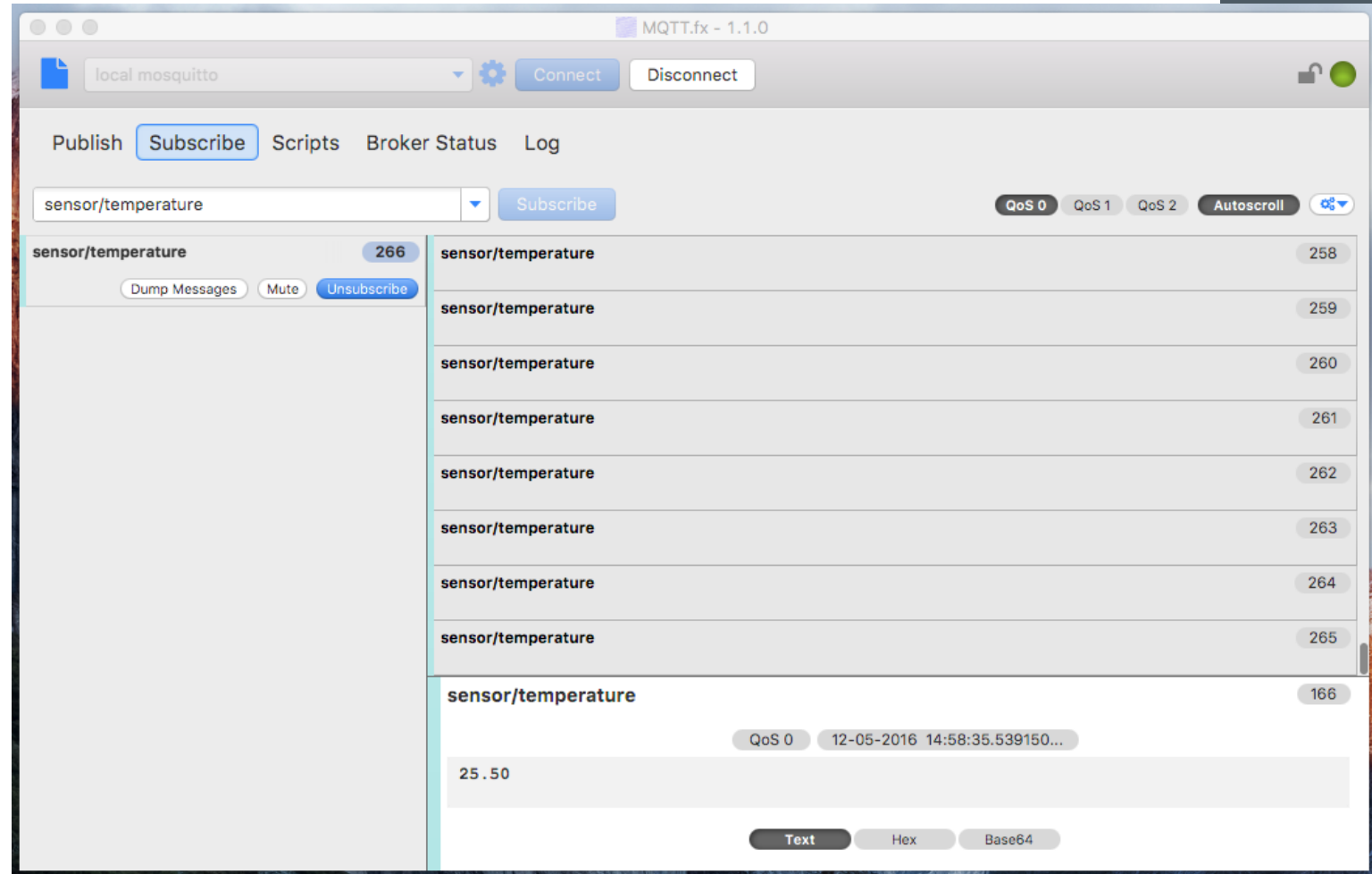
2. Try to split up the configuration.yaml file

```
automation: !include_dir_merge_list automation
binary_sensor: !include_dir_merge_list binary_sensor
#counter: !include_dir_merge_named counters
cover: !include_dir_merge_list covers
device_tracker: !include_dir_merge_list device_tracker
group: !include_dir_merge_named group
input_boolean: !include_dir_merge_named input_boolean
light: !include_dir_merge_list lights
#input_number: !include_dir_merge_named input_number
media_player: !include_dir_merge_list mediaplayer
scene: !include_dir_merge_list scenes
script: !include_dir_merge_named script
sensor: !include_dir_merge_list sensor
switch: !include_dir_merge_list switch
weather: !include weather.yaml
zone: !include_dir_merge_list zones
```

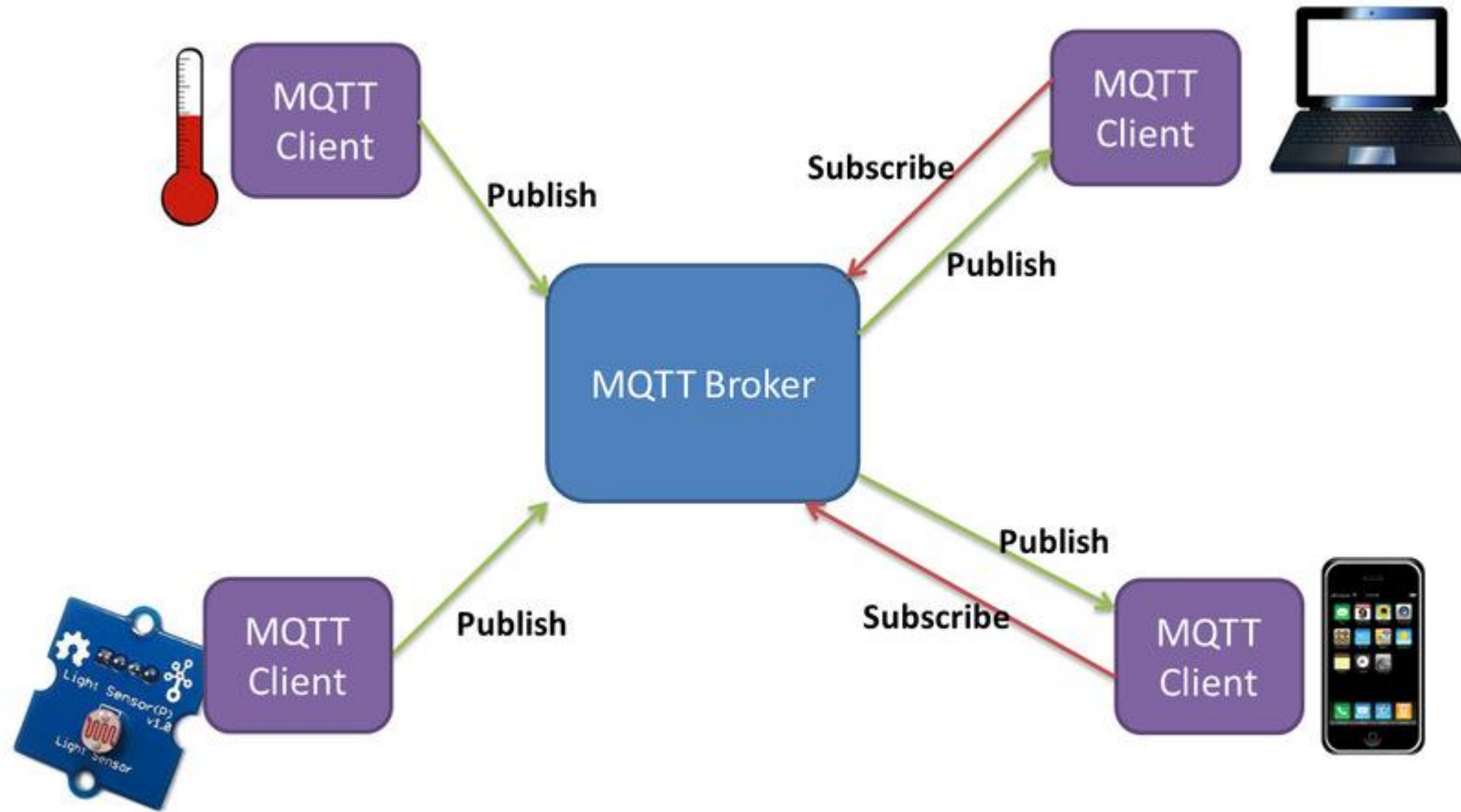


# Tips

3. Use MQTTfx  
to view all  
MQTT  
messages.



# MQTT Intermezzo





# Do It Yourself

- <https://github.com/sgoudsme/hass-intro>
- Add MQTT light
- Download Telegram on smartphone
- Chat with the Botfather
  - Do all required steps
  - Get API key
- Chat with the userinfobot
  - Get your user id -> see configuration.yaml
- Insert ping pong example: [https://www.home-assistant.io/components/telegram\\_bot/](https://www.home-assistant.io/components/telegram_bot/)
- Make commando to turn on/off mqtt light with Telegram
- Extra: find out how Hass uses the name of your telegram

MQTT light:

- Platform = mqtt
- Schema = json
- Cmd\_tpc = "D2316/A/command"
  - With A = 1-2-3-4
- Enable brightness

