

Home Assistant

<https://github.com/sgoudsme/hass-intro>

Make your home
come alive with
Home Assistant

Sibrecht Goudsmedt

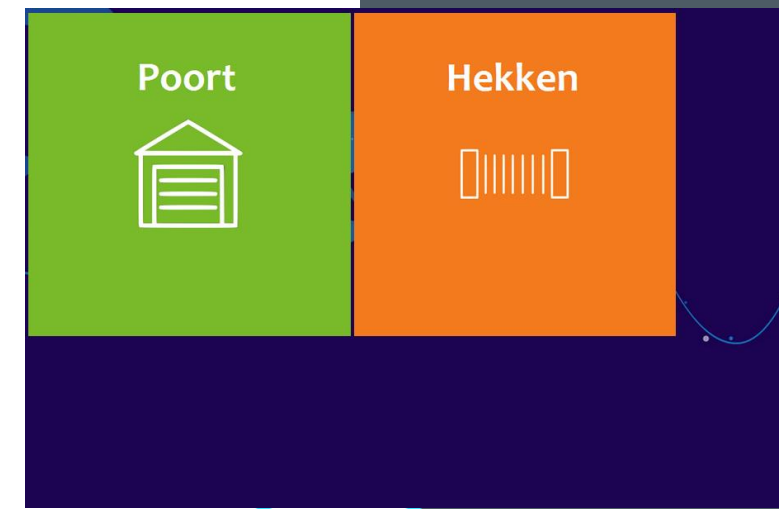
What to talk about?

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



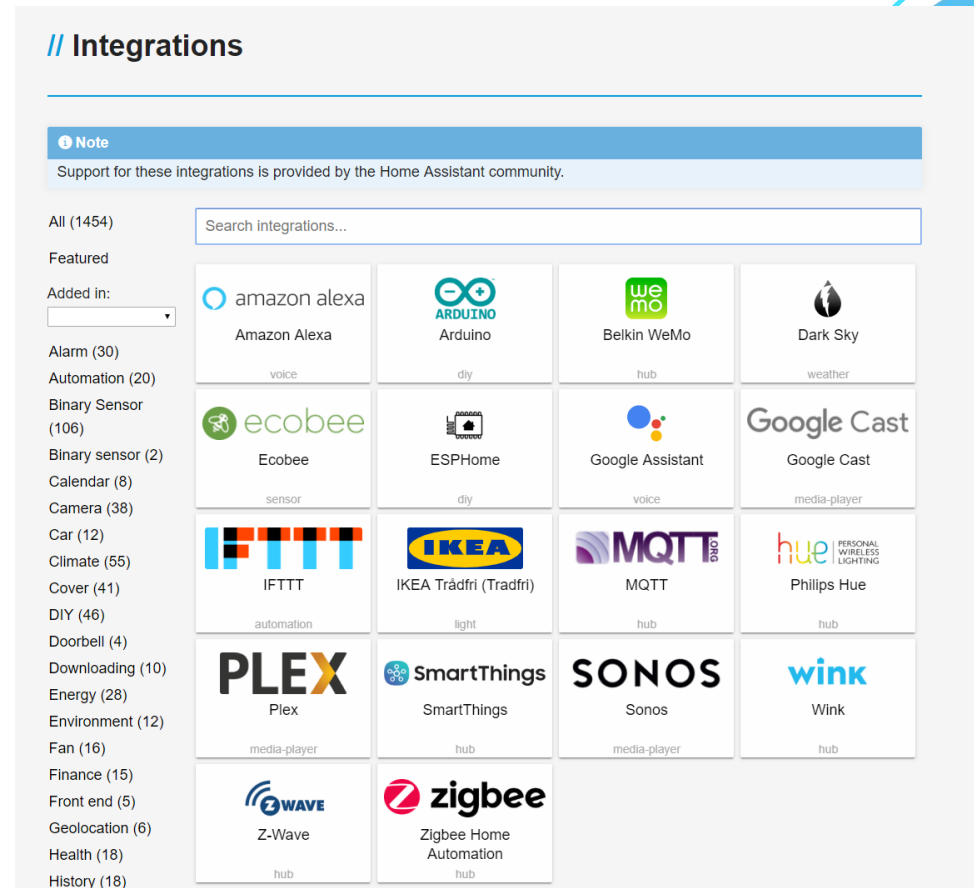
How I Started

- 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



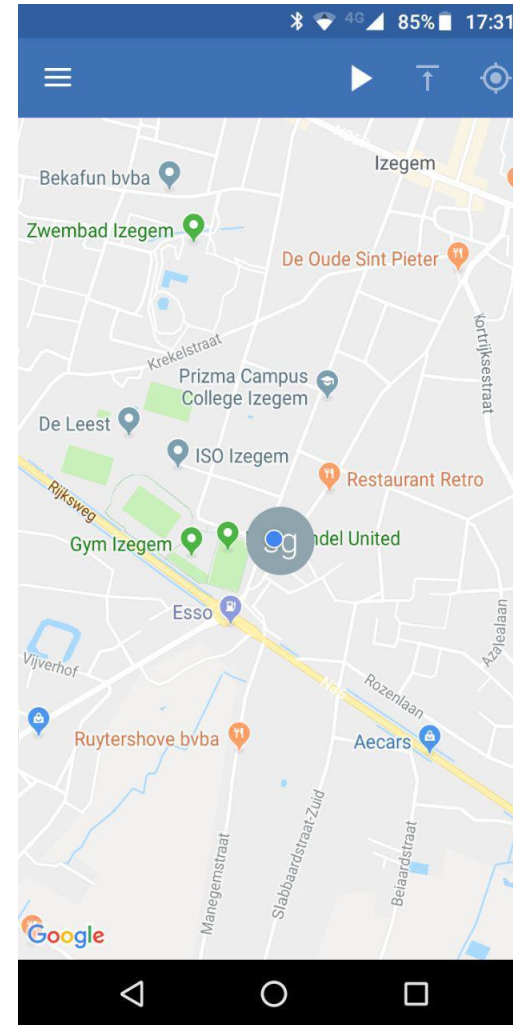
What integrations?

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



OwnTracks - Location

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



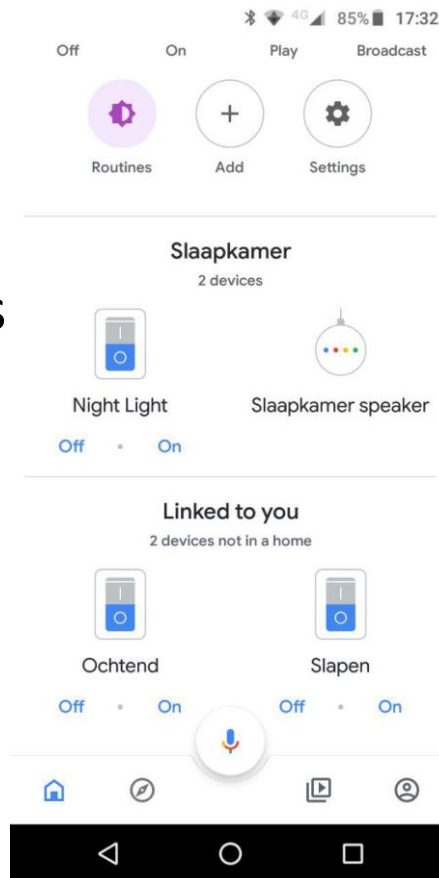
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Google Home, Telegram & Tradfri

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



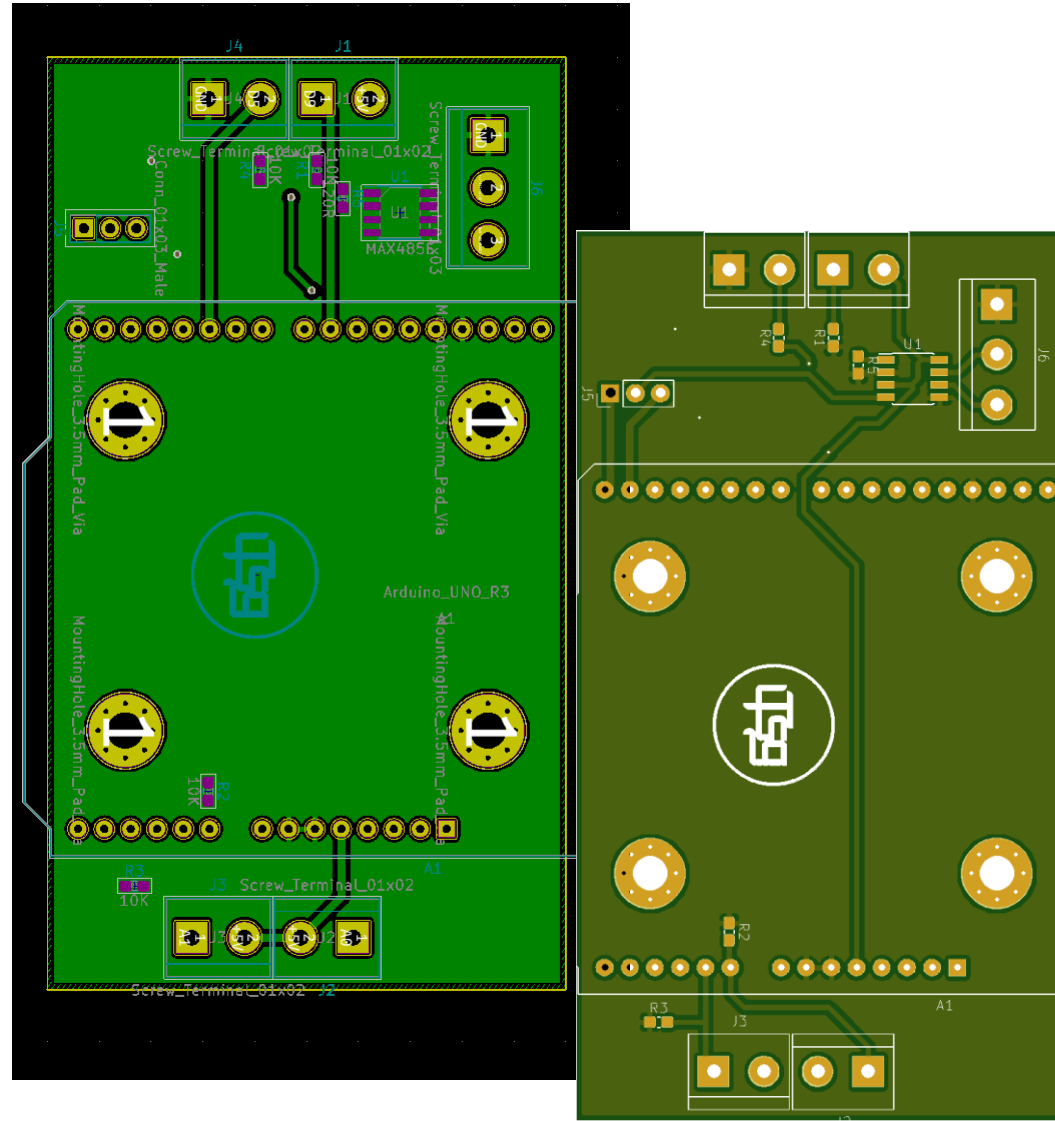
What integrations?

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- MQTT & custom code/PCB
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MQTT & custom code/PCB

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



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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

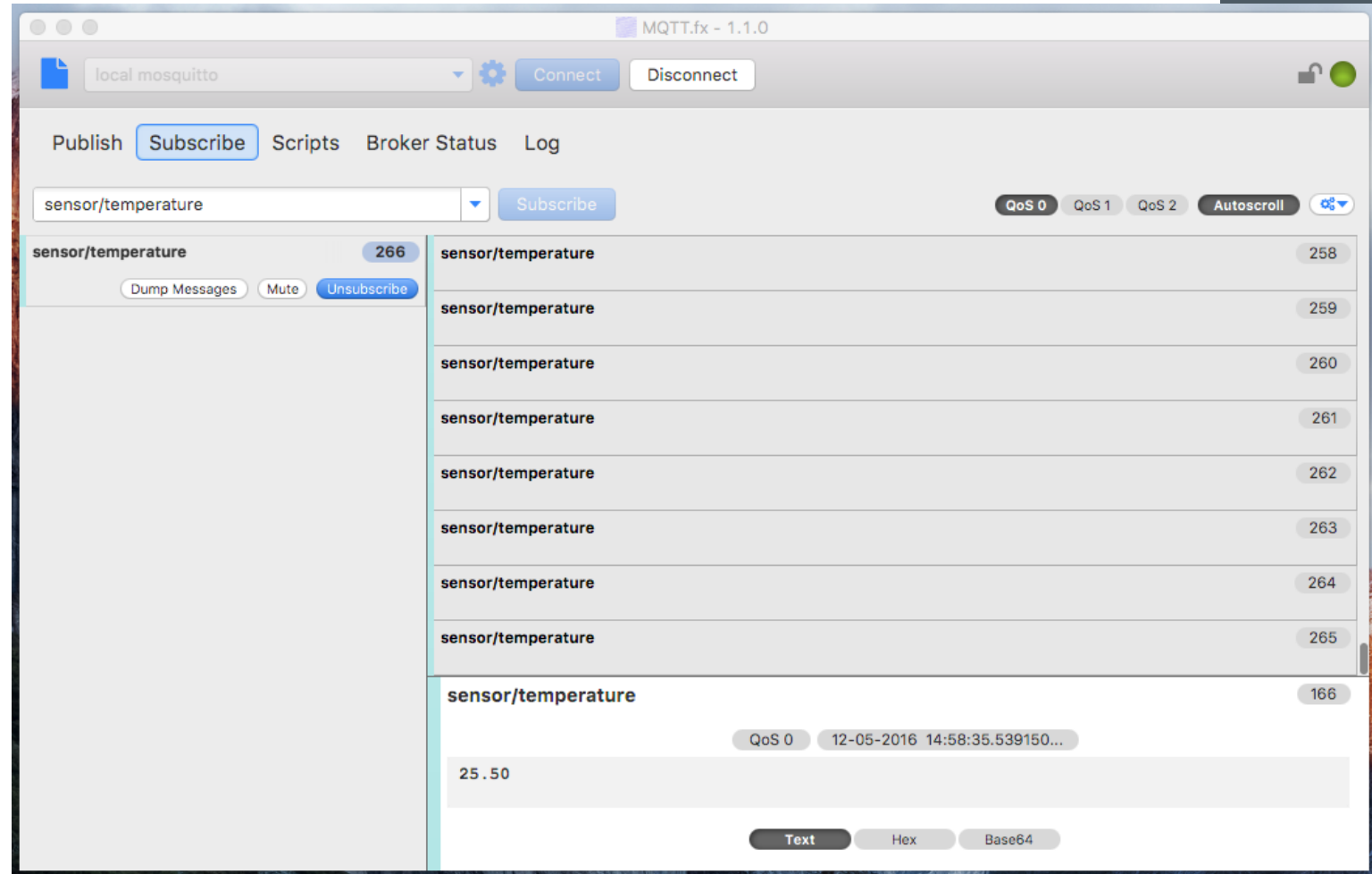
2. Try to split up the configuration.yaml file

```
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
```

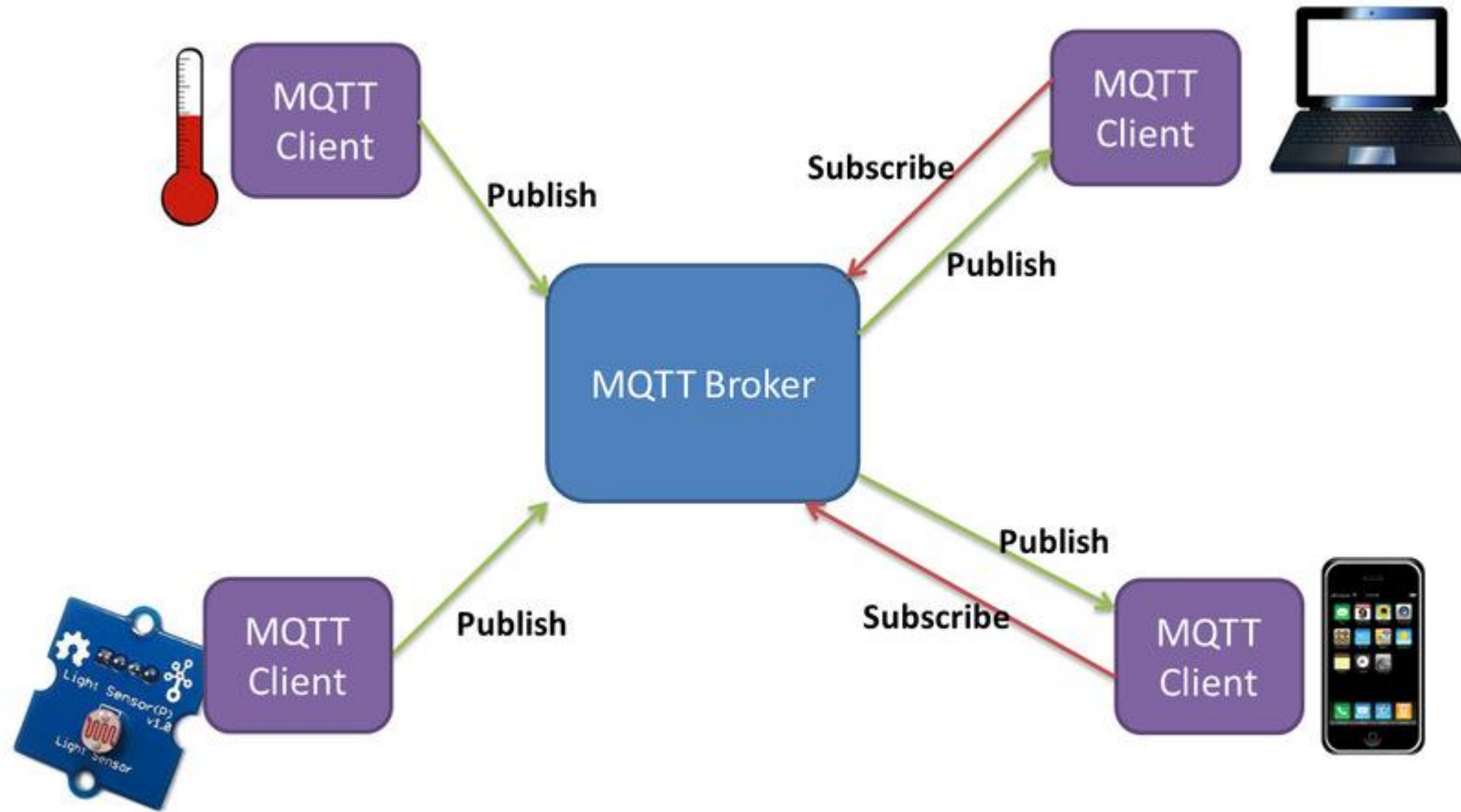


Tips

3. Use MQTTfx to view all MQTT messages.



MQTT Intermezzo



Links

- www.home-assistant.io
- www.ltsg.be
- <https://www.youtube.com/channel/UC7G4tLa4Kt6A9e3hJ-HO8ng> - DrZzs
- <https://www.youtube.com/channel/UC2gyzKcHbYfqoXA5xbyGXtQ> – The Hook Up



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/
- 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

