Supplemental home assistant information

Raspberry pi. (hard to get, but from time to time they are available here :
https://thepihut.com/products/raspberry-pi-starter-kit
(they deduct VAT when shipping out of country and right now the pound is low !!!
Raspberry pi OS imaging software: download the HA operating system OS image
 https://www.raspberrypi.com/news/raspberry-pi-imager-imaging-utility/

Random nerd intro to esp8266 (general information)
https://randomnerdtutorials.com/getting-started-with-esp8266-wifi-transceiver-review/

Parts. Esp8266 mini - try Amazon first before you order big orders from bang good in china
Hosyond 5Pcs D1 Mini NodeMcu ESP8266 ESP-12F Wireless WiFi Module Internet of Things Development
Board Compatible with Arduino/WeMos https://a.co/d/diVprnM

Node mcu boards

KeeYees Development Board WiFi WLAN Wireless Module for ESP8266 NodeMCU ESP-12E CP2102
Compatible with Arduino (5pcs) https://a.co/d/6sOgV55

The temperature sensor I used :
DS18B20 Digital Temperature Sensor 20 Pack Programmable Resolution 1-Wire Digital Thermometer Dallas
Semiconductor Collection TO-92 https://a.co/d/b4YNVND
(you can get smaller quantities as well)
But contact me is you are going to stick one of these in your freezer or fridge - it need one resistor added
between two of the pins befor it will work. But not hard to to.

Christian

Geofencing
Inspiration for this is this guy from holland. I find his tutorials very good on home assistant and I subscribed.
.
https://youtu.be/pjAyRN5UiBg

So my version of this is to .
-add this to your config yaml file.
See next page screenshot

Geofencing

Configuration
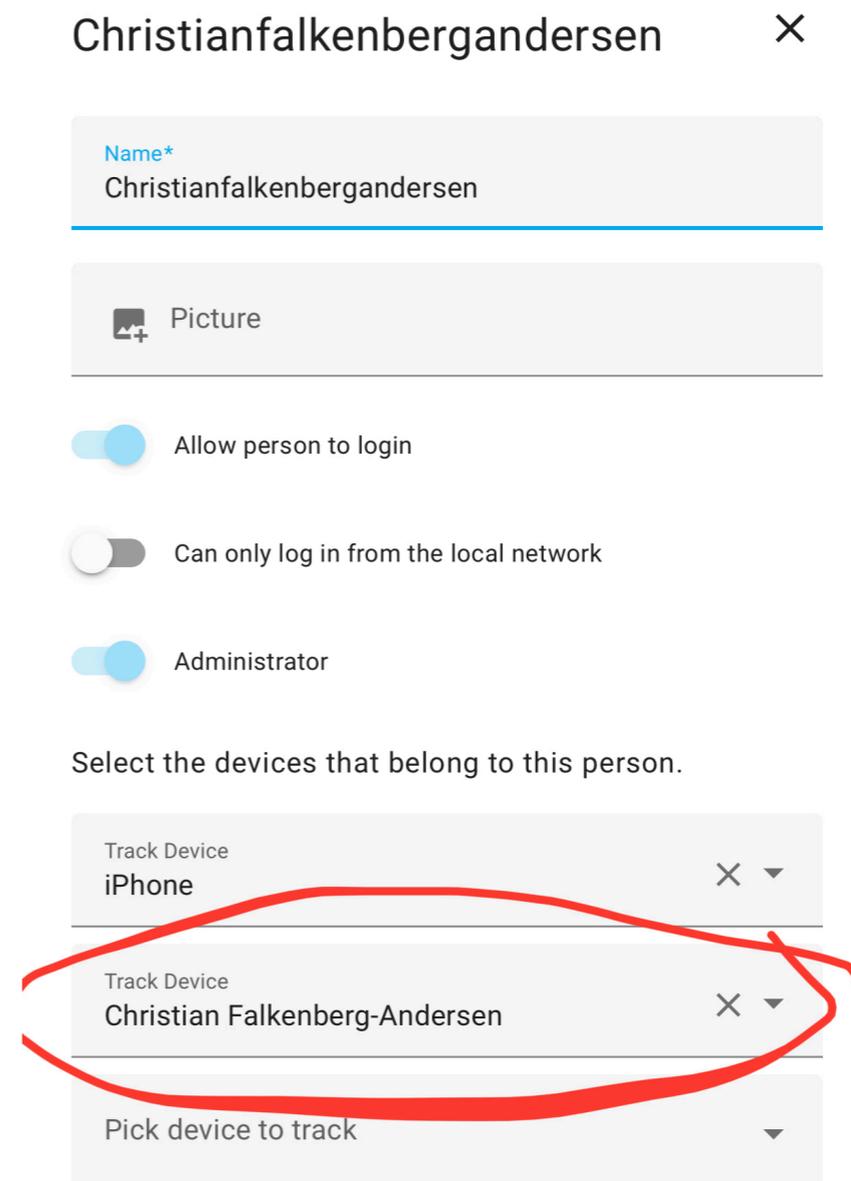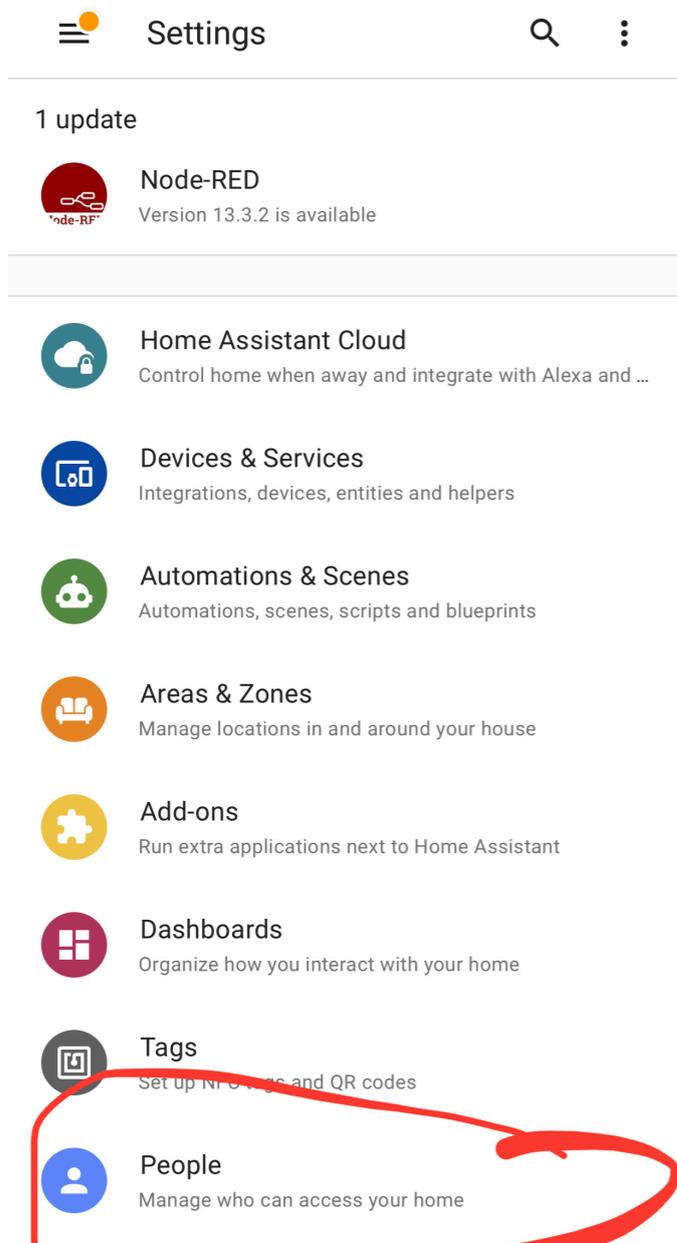Yaml file
Can be
Viewed
Withe the
File editor
Addon
Program

Home Assistant

```
50  #### proximetry integration ###
51  proximity:
52    home:
53      devices:
54        - person.christianfalkenbergandersen
55      tolerance: 50
56      unit_of_measurement: m
57
```

Home Assistant

The edit your person data - see where in screenshot below(and you need to have given location permission to you home assistant app on you IPhone.

The first one (in the tracking list) is just using the iPhone gps to track your iPhone(via home assistant companion app). That gives great reliable information to know when you are on your home network but not while you are away. So I could not get proximity to work which gives the distance to home. But it will very nicely give you a true if you are home.

The second tracker is the one that is actually being used is Life360. It is a free iPhone tracking device which I am just using for it's ability to provide my gps data to home assistant when I am away from home - via its cloud service ..
- but you sneed to set up an the free account with life 360 App

Link to app:

https://apps.apple.com/ca/app/life360-find-family-friends/id384830320

The Dutch guy also describes very nicely how to set up your account for life 360 - again this is the guy who has good videos on home assistant.

At around 8 min in this video.
https://youtu.be/AcxHt_bPIZQ

When these are done then you can determine your proximity to home with this code (here I just send it as a notification to myself - once a minute for test purposes
Action yaml Code:
service: notify.mobile_app_iphone
data:
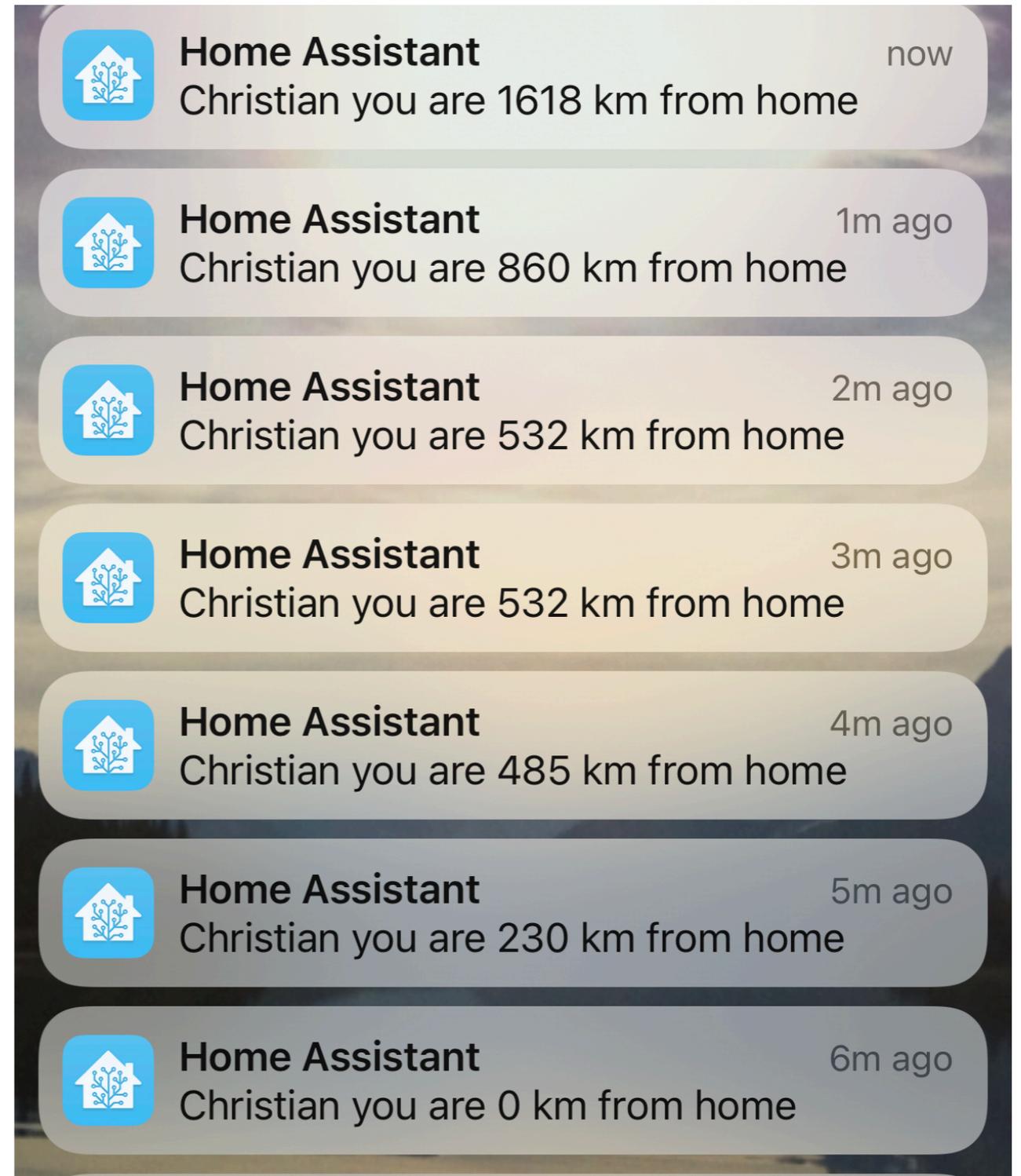 **message: Christian you are {{states('proximity.home')}} meters from home**
Result of above when I drove to nose hill on my bike.
(screenshot next page)

Ignore the km
(the config file is
Where units are set to
meters
so that is what it is where
Thi problem is.

I fixed my notification
text since.

🏠 Home Assistant

Home Assistant — now
Christian you are 1618 km from home

Home Assistant — 1m ago
Christian you are 860 km from home

Home Assistant — 2m ago
Christian you are 532 km from home

Home Assistant — 3m ago
Christian you are 532 km from home

Home Assistant — 4m ago
Christian you are 485 km from home

Home Assistant — 5m ago
Christian you are 230 km from home

Home Assistant — 6m ago
Christian you are 0 km from home

BUT: you can also map the Life360 data , so create a new subpage on the dashboard , make it a map , configure the map as per side screen Shot

Map Card Configuration ?

Dark Mode?

Hours to Show
48

Entities (required)

⠿ Entity
Home   × ▼

⠿ Entity
Christian Falkenberg-Andersen   × ▼

Entity   ▼

Geolocation Sources

Source
device_tracker.christian_falkenberg_ander: ×

Source

christian's location

＋

－

That is it. For geolocation with home assistant.

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the purpose for doing this is so that I can turn on the heat in my garage in the wintertime. So when I am 5 km away (and approaching home - proximity distance is decreasing) so it is warm when arriving home. That way the heat does not need to be on the whole time I am away.   Zones can also be created in home assistant. So upon arriving at superstore my shopping list could pop up as a notification on my phone (I need to test that - for another day.)

IGmail in home assistant .

-

This guy does a very nice description of how you have to enable 2 factor authentication and get an app specific password from google. The old way by just using less secure device and using username and password are not allowed (after end of may 2022).

Link.

https://youtu.be/tsuWrXErWGI

The Gmail section is at the 11 min mark.

.
The documentation for setting up gmail in home assistant is in their documentation but there are a couple of "gotchas".
Link:

https://www.home-assistant.io/integrations/smtp/

Their sample above for Google mail. This is what you have to put into your configuration yaml file. (anywhere , top or bottom)
However even though they state it is for gmail. The NOTIFIER_name - red above- has to be replaced with gmail. …!!! And replace all the green fields with your sender stuff BUT without the quotation marks. I guess you are supposed to know that….!!!
- your username is your usual gmail username. (I made a separate account for my raspberry pi stuff so that is what I used. (Ie christianfalkenbergandersenpi@gmail.com).) and the password is not your gmail account password but the app password that google created for you when you applied for this as described by the YouTube video guy above.
(see next page)

check your e-mail provider configuration or help pages for more information about its specific SMTP configuration.

GOOGLE MAIL

A sample configuration entry for Google Mail.

```yaml
# Example configuration.yaml entry for Google Mail.
notify:
  - name: "NOTIFIER_NAME"
    platform: smtp
    server: "smtp.gmail.com"
    port: 587
    timeout: 15
    sender: "YOUR_USERNAME@gmail.com"
    encryption: starttls
    username: "YOUR_USERNAME@gmail.com"
    password: "YOUR_PASSWORD"
    recipient:
      - "RECIPIENT_1@example.com"
      - "RECIPIENT_N@example.com"
    sender_name: "SENDER_NAME"
```