home-assistant.io

or
How to keep it local and private

Background

- smart homes thanks to IoT

- BUT: privacy concerns (must phone home!)

- Monitoring

  - temperature (regulate AC)

  - electricity usage

  - cameras

"Private" alternatives?

- home-assistant.io

- openHAB

- see also:

    https://alternativeto.net/software/home-assistant-io/

Installation

- images for

  Odroid, RPi, Asus Tinkerboard, Intel NUC, Windos Mac, Linux, and others

- RPi only 3 and 4

- On RPi 2: use docker or Python venv

Installation (venv)

- Download/flash RPi OS on SD card

  https://www.raspberrypi.org/software/operating-systems/

- Boot up and configure (sudo raspi-config)

- Follow home-assistant instructions

  use Python 3.8!

  5-10min

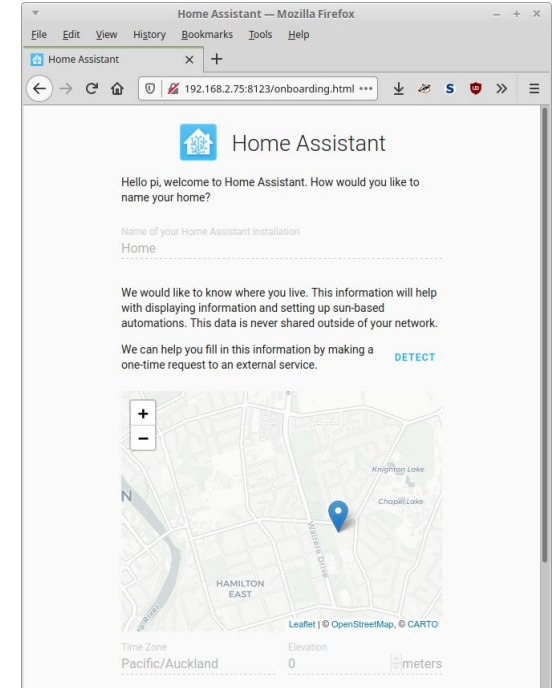 https://www.home-assistant.io/installation/raspberrypi#install-home-assistant-core
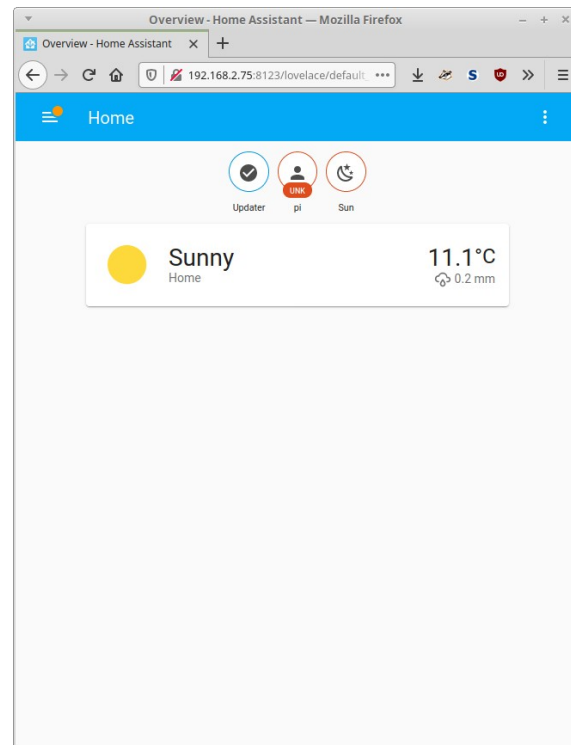
Onboarding

- Documentation
  https://www.home-assistant.io/getting-started/onboarding/

- http://A.B.C.D:8123/

- create admin account

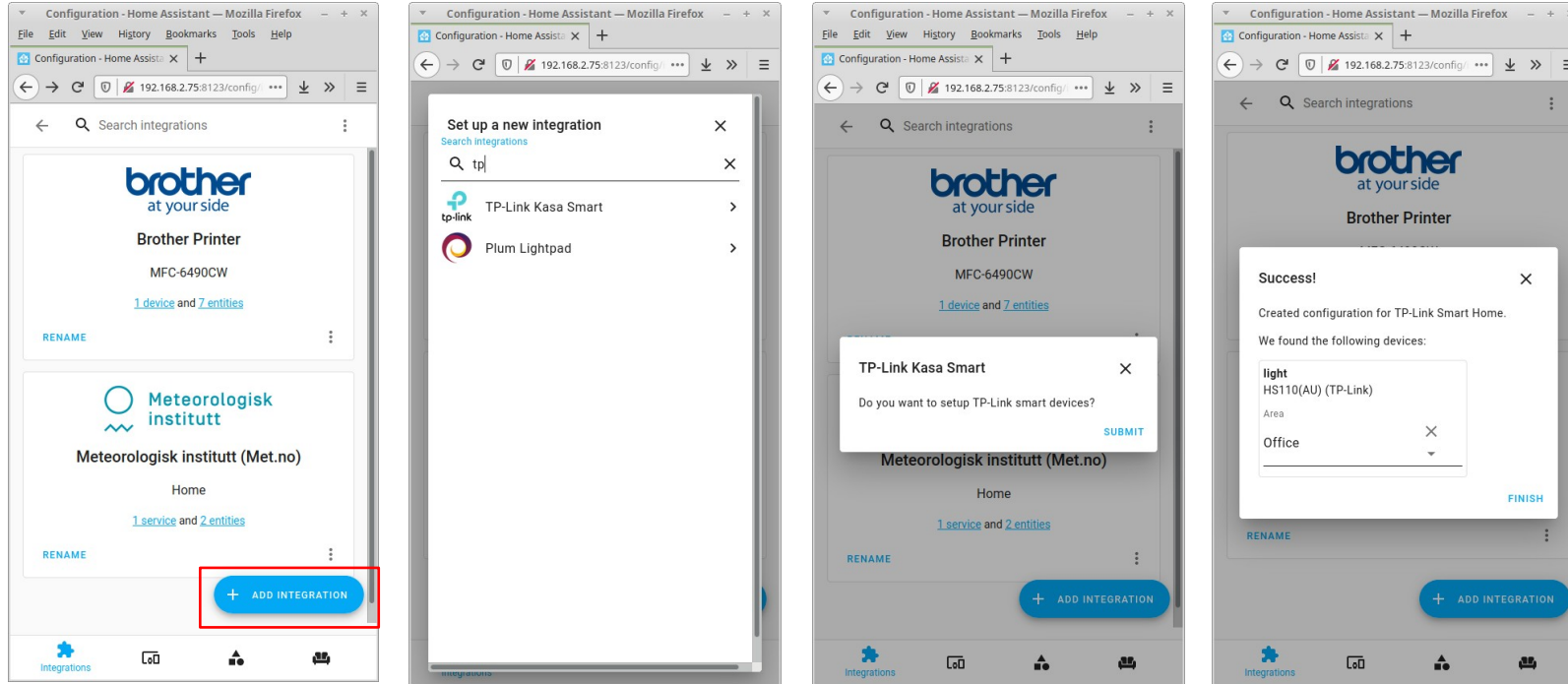- configure location

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Home screen

- After onboarding is done, home assistant scans network to find known devices
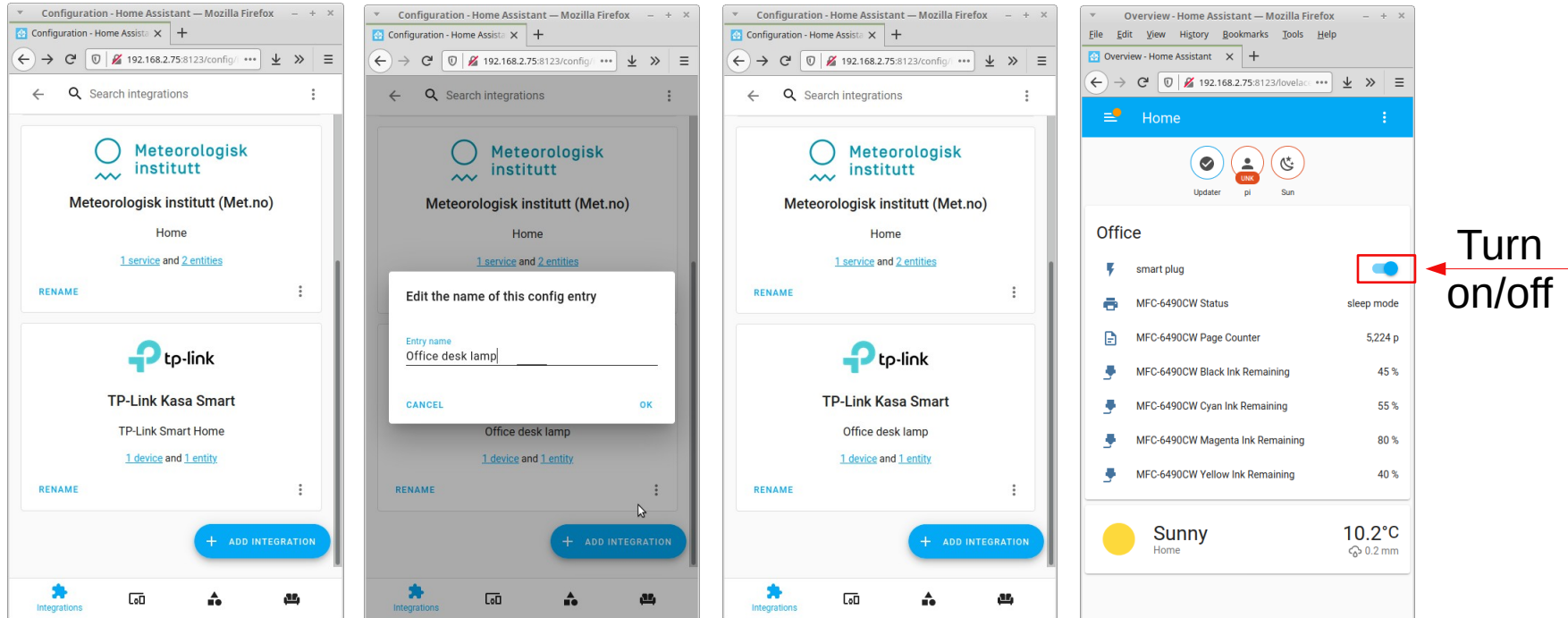
- Finishes with home screen

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Next steps – add devices

- tp-link kasa HS110

- controlled via Kasa Smart app

- BUT: no account required

  https://www.tp-link.com/us/support/faq/2707/

- Plug in smart plug

- Connect to plug's wifi and follow instructions on app
  - Did not work on S7 with Android 9
  - Worked on S10 with Android 11

- NB: Your Wifi needs to be WPA2-Personal (not mixed!)

Adding smart plug

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Adding smart plug (2)

Turn on/off

Fancy stuff

- Add automation with triggers
  - Out of town: turn on/off lights to simulate that someone is home
  - turn on/off lights based on sunset/sunrise
- Trigger actions with presence (eg smartphone is home)
  - lights on
  - music on (integration for kodi)

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