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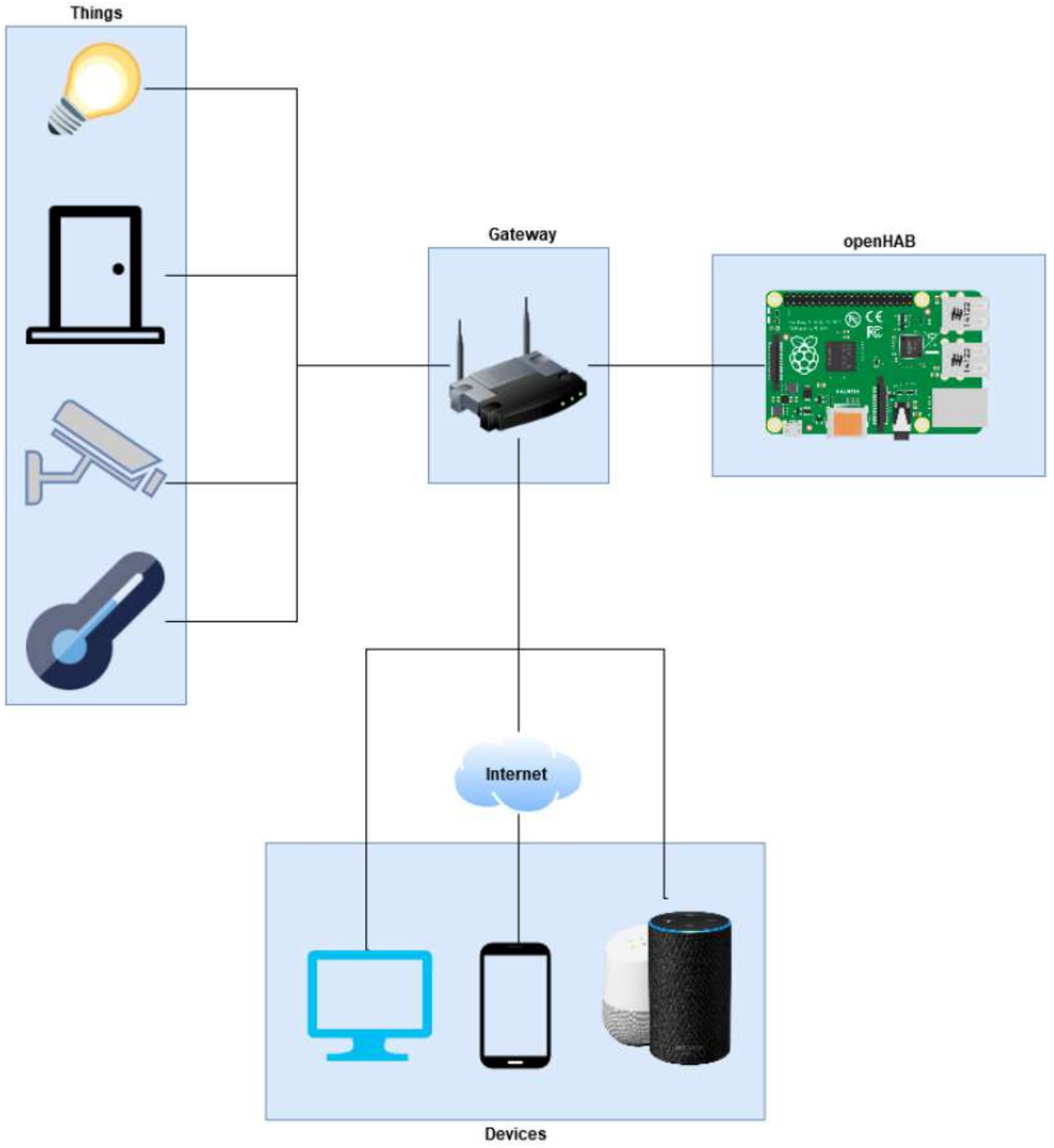
What is openHAB?

- home automation software
- connects devices & services from different vendors
- "heart" of smart home
- open **H**ome **A**utomation **B**us

Overview



made with: draw.io

Advantages

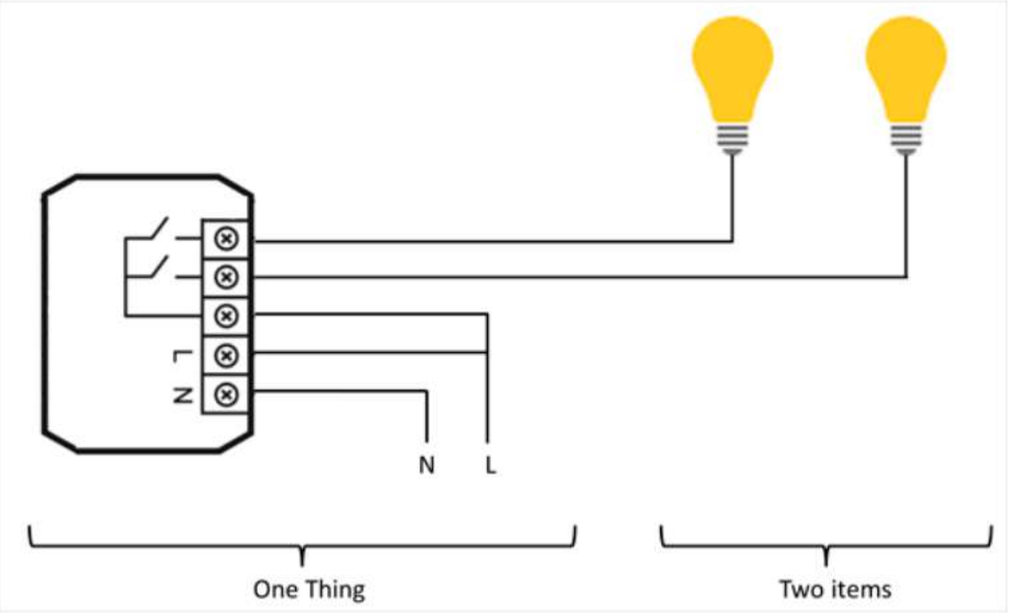
- no cloud required - privacy
- own control
- "cloud-friendly"
- java - customizable!
- broad range of vendors
- free & open source
- multi-platform
- easy to use
- docker

Disadvantages

- security
- setup

Terminology

- **Things** - physical entities
- **Channels** - connection between item and OH
- **Bindings** - installable add-ons
- **Items** - used by applications; have states and commands
- **Links** - an association between exactly one channel and one item

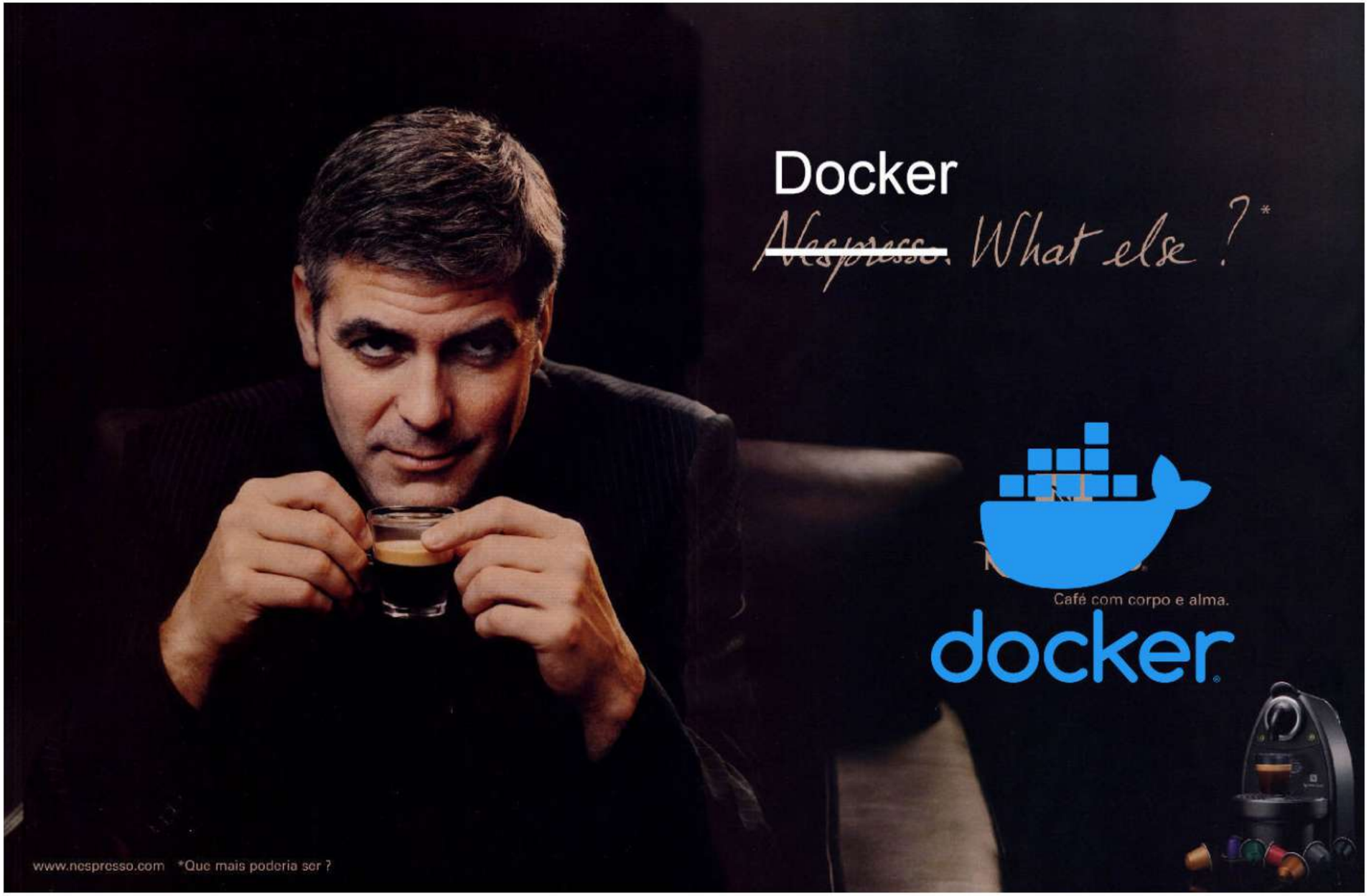


Documentation

Setup

1. Download openhabian
2. Flash microSD with openhabian
3. Install openhabian on RasPi ~ 30 min.
4. Log-in
   - user: openhabian
   - pw: openhabian
5. Configure language
6. Browse http://openhab:8080
7. Follow new user Tutorial

Recommendation for setup: YouTube Tutorial


Docker
~~Nespresso.~~ What else ?*
Café com corpo e alma.
docker
www.nespresso.com *Que mais poderia ser ?

Demo

1. run docker-compose up
2. add MQTT-Binding
3. add MQTT-Broker
4. add MQTT-Thing
5. display temperature & humidity

Conclusion

- connects multiple devices from different vendors
- own cloud
- extendable
- provides intuitive user interface
- setup is time-consuming