

hcc<sup>!</sup> domotica / IOT

Home Automation

met Home Assistant



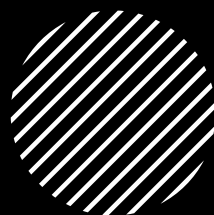


# Domotica protocollen

- WiFi, Ethernet, bv. Ring, Shelly
- RF (433MHz) bv. KAKU, Sonoff
- RF (868 MHz) bv. KAKU
- Apple homeKit/Bonjour
- ZigBee - mesh
- Z-Wave – mesh
- KNX – bekabeld systeem
- MQTT – berichten uitwisseling
- BlueTooth
- Matter - Thread



# Sensoren



- Deur/raam sensors
- Waterlekkage sensors
- Vochtigheid sensors
- Beweging sensors
- Temperatuur sensors
- IR sensors
- Licht sensors
- Rook/CO sensors





# Verlichting & Schakelaars

- Zigbee
  - HUE
  - LIDL
  - Ikea
- WiFi
  - Wiz
  - Ikea
- Z-Wave
  - Fibaro
  - Aeotec
- BlueTooth
  - HUE
  - Paulmann Home





# HUB systemen

- RF – HUB/Gateway
- Zigbee – HUB/Gateway
- Z-Wave – HUB/Gateway
- WiFi – Access Point
- BlueTooth – BT adapter
- Matter – HUB/Gateway \*



























Wat is  
Home Assistant?

# Installatie Home Assistant

- Raspberry Pi/Odroid
- Generic x86-64 PC
- Windows (VM)
- macOS (VM)
- Linux (VM)



 <p>Alexa Media Player 1 apparaat en 7 entiteiten</p> <p>CONFIGUREER</p>	 <p>Apple TV AppleTV-Keuken Woonkamer</p>	 <p>home-assistant_v2.db Bestandsgrootte 1 dienst en 3 entiteiten</p>	 <p>B8:81:98:BD:4D:2B Bluetooth 1 apparaat</p> <p>CONFIGUREER</p>	 <p>Buienradar 108 entiteiten</p> <p>CONFIGUREER</p>	 <p>DENON 1</p> <p>CONFIGUR</p>
 <p>SAN01 DLNA Digital Media Server</p>	 <p>Generic Camera 192_168_178_20 192_168_178_26</p>	 <p>Google Cast 7 apparaten en 7 entiteiten</p> <p>CONFIGUREER</p>	 <p>HACS 1 dienst en 1 entiteit</p> <p>CONFIGUREER</p>	 <p>Supervisor Home Assistant Supervisor 9 diensten en 47 entiteiten</p>	 <p>IPP 7 In 1</p>
 <p>LG webOS Smart TV 1 apparaat en 1 entiteit</p> <p>CONFIGUREER</p>	 <p>Kalender Local Calendar 1 entiteit</p>	 <p>Moon Maan 1 dienst en 1 entiteit</p>	 <p>Meater 1 apparaat en 8 entiteiten</p>	 <p>Mobiele app iPad van Nico (4) iPhone Elly NOKKIEIPHONE</p>	 <p>M M 9</p> <p>CONFIGUR</p>
 <p>Music Assistant 8 apparaten en 79 entiteiten</p> <p>CONFIGUREER</p>	 <p>Hue Bridge 0017887fa274 Philips Hue 39 apparaten, 11 diensten en 194 entiteiten</p> <p>CONFIGUREER</p>	 <p>Radio Browser</p>	 <p>Ring 2 apparaten en 14 entiteiten</p>	 <p>Season 1 dienst en 1 entiteit</p>	 <p>S S 1</p>

# Integraties























# Home Assistant Community Add-ons

 <b>AdGuard Home</b> Network-wide ads & trackers blocking DNS server	 <b>AirCast</b> AirPlay capabilities for your Chromecast devices.	 <b>AirSonos</b> AirPlay capabilities for your Sonos (and UPnP) devices.	 <b>AppDaemon</b> Python Apps and Dashboard using AppDaemon 4.x for Home	 <b>Bookstack</b> Simple & Free Wiki Software	 <b>chrony</b> A local NTP (Network Time Protocol) server for cameras etc.
 <b>EMQX</b> The most scalable open-source MQTT broker for IoT. An	 <b>Example</b> Example add-on by Community Home Assistant Add-ons	 <b>Folding@home</b> Fighting disease with a world wide distributed super computer	 <b>FTP</b> A secure and fast FTP server for Home Assistant	 <b>Glances</b> A cross-platform system monitoring tool	 <b>Grafana</b> The open platform for beautiful analytics and monitoring
 <b>Grocy</b> ERP beyond your fridge! A groceries & household management solution	 <b>Home Panel</b> A web frontend for controlling the home	 <b>InfluxDB</b> Scalable datastore for metrics, events, and real-time analytics	 <b>JupyterLab</b> Create documents containing live code, equations, visualizations,	 <b>Log Viewer</b> Browser-based log utility for Home Assistant	 <b>Matrix</b> A secure and decentralized communication platform.
 <b>motionEye</b> Simple, elegant and feature-rich CCTV/NVR for your cameras	 <b>MQTT IO</b> Expose GPIO modules and digital sensors via MQTT for remote	 <b>Network UPS Tools</b> Manage battery backup (UPS) devices	 <b>Nginx Proxy Manager</b> Manage Nginx proxy hosts with a simple, powerful interface	 <b>Node-RED</b> Flow-based programming for the Internet of Things	 <b>phpMyAdmin</b> A web interface for the official MariaDB add-on
 <b>Plex Media Server</b> Recorded media, live TV, online news, and podcasts ready to	 <b>Spotify Connect</b> Play Spotify music on your Home Assistant device	 <b>SQLite Web</b> Explore your SQLite database	 <b>SSH &amp; Web Terminal</b> SSH & Web Terminal access to your Home Assistant instance	 <b>Studio Code Server</b> Fully featured Visual Studio Code (VSCode) experience integrated	 <b>Tailscale</b> Zero config VPN for building secure networks
 <b>TasmAdmin</b> Centrally manage all your Sonoff-Tasmota devices	 <b>Tautulli</b> Monitoring and tracking tool for Plex Media Server	 <b>The Lounge</b> A self-hosted web IRC client	 <b>Tor</b> Protect your privacy and access Home Assistant via Tor	 <b>Traccar</b> Modern GPS Tracking Platform	 <b>UniFi Network Application</b> Manage your UniFi network using a web browser
 <b>Uptime Kuma</b> It is a self-hosted monitoring tool like "Uptime Robot"	 <b>Vaultwarden (Bitwarden)</b> Open source password management solution	 <b>WireGuard</b> Fast, modern, secure VPN tunnel	 <b>Z-Wave JS UI</b> Fully configurable Z-Wave JS gateway and control panel	 <b>ZeroTier One</b> Radically simplify your network with a virtual networking layer	

Add-On's

# Home Assistant Companion App

Sensoren		
	BSSID	10:da:43:c3:47:8d
	Battery Level	82%
	Battery State	Not Charging
	Connection Type	Wi-Fi
	Geoco...	Maarsse Maarsse Nederland
	Last Update Trigger	Periodic
	SIM 1	vf nl
	SIM 2	N/A
	SSID	DigitalHifi
	Storage	7,44 % available

Sensoren		
	BSSID	10:da:43:c3:47:8d
	Battery Level	100%
	Battery State	Full
	Connection Type	Wi-Fi
	Focus	Uit
	Geoco...	Maarsse Maarsse Nederland
	Last Update Trigger	Periodic
	SIM 1	iPad
	SSID	DigitalHifi
	Storage	13,05 % available

# Ruimtes & Zones



**Badkamer**

3 apparaten, 1 dienst en 4 entiteiten



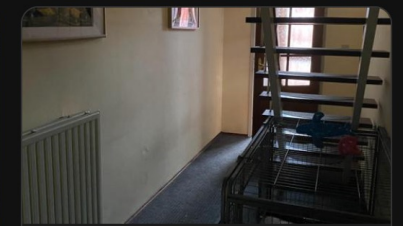
**Buiten voor**

1 apparaat, 1 dienst en 1 entiteit



**CV Ruimte**

3 apparaten en 1 entiteit



**Gang**

2 apparaten, 1 dienst en 1 entiteit



**Huiskamer**

21 apparaten, 1 dienst en 8 entiteiten



**Kantoor Elly**

1 apparaat en 3 entiteiten



**Kantoor Nico**

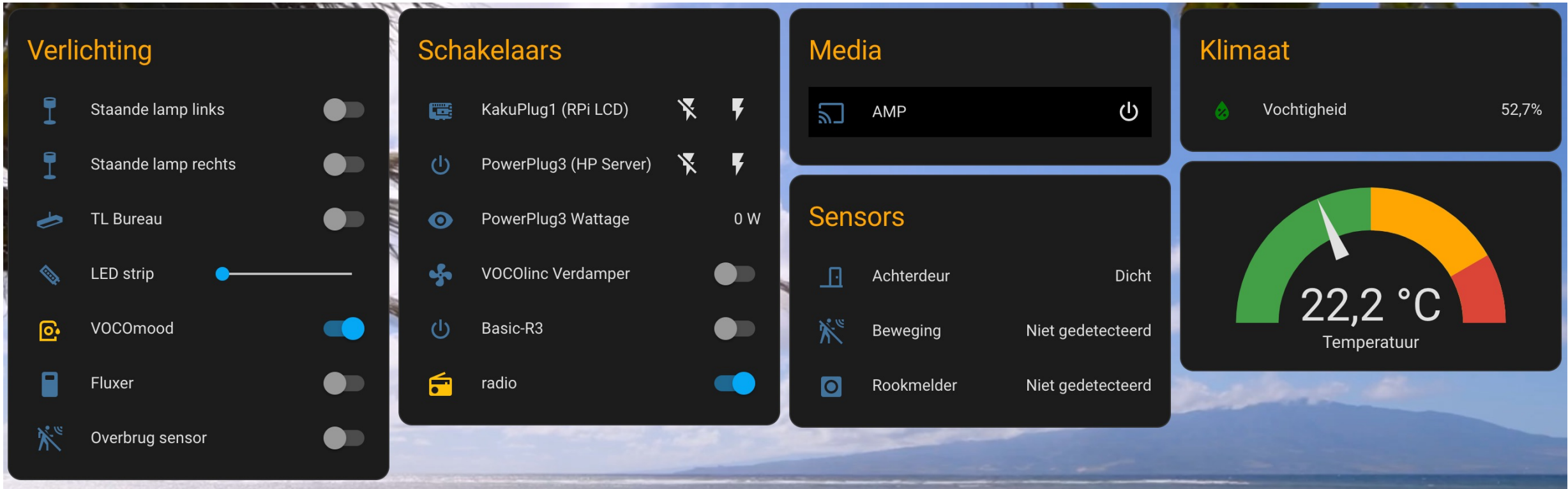
12 apparaten, 1 dienst en 11 entiteiten



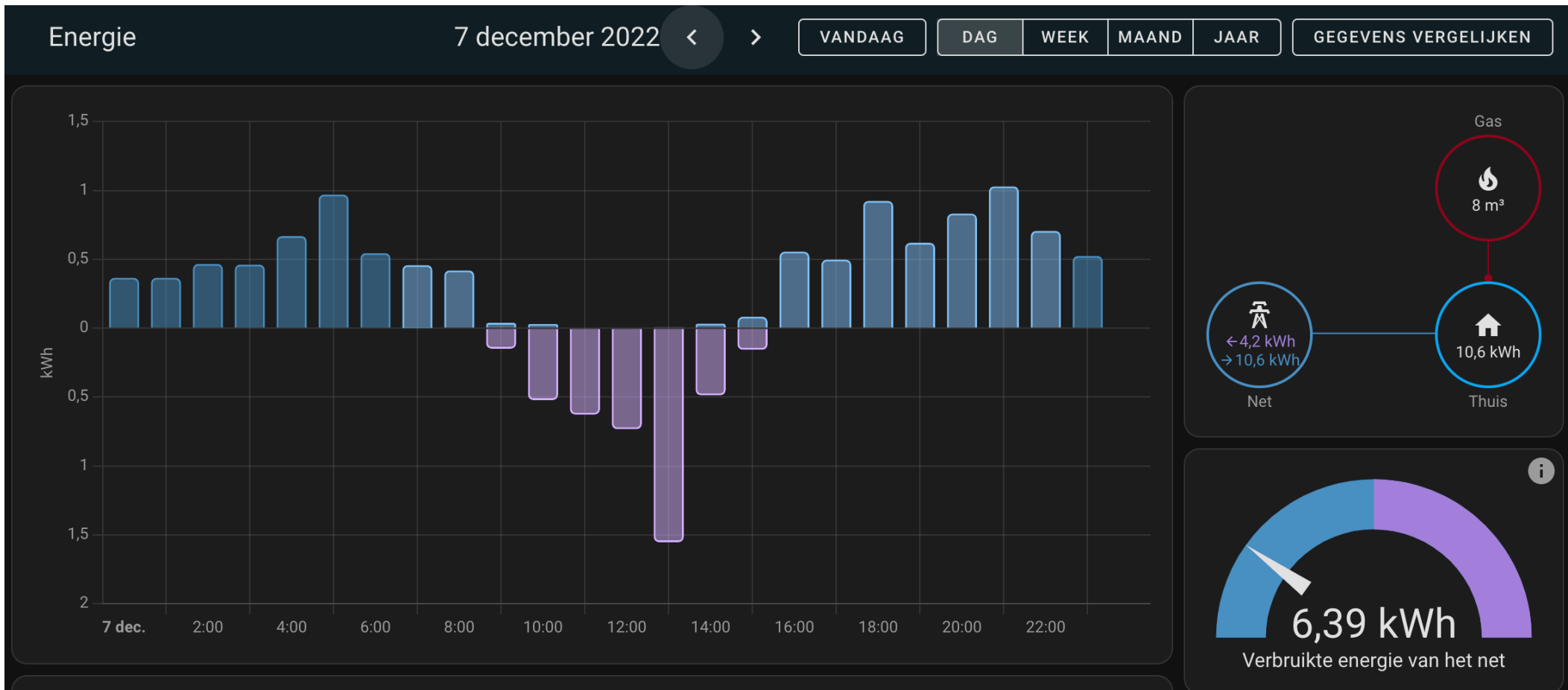
**Keuken**

8 apparaten, 1 dienst en 7 entiteiten

# Dashboards












# Energie



# Helpers



## Helper aanmaken

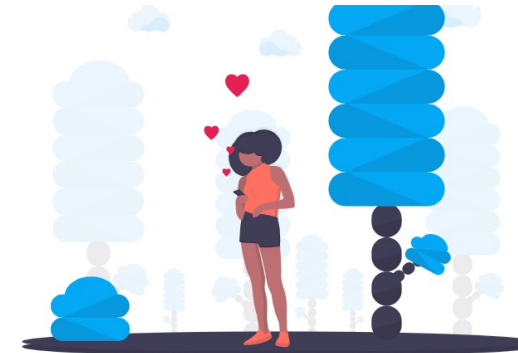
-  Min / max / gemiddelde / mediaan sensor
-  Numeriek
-  Nutsmeter
-  Schakelaar
-  Schema
-  Tekst
-  Teller
-  Tijd van de dag Sensor
-  Timer

# Remote beheer – Nabu Casa

## Access from anywhere

No longer worry if you left the garage door open. Quickly access your Home Assistant instance from your phone, your favorite coffeeshop or at work.

All data is fully encrypted between your device and your Home Assistant instance. No snooping.



## Easily connect to voice assistants

With Home Assistant Cloud, you can connect your Home Assistant instance in a few simple clicks to both Google Assistant and Amazon Alexa.

If you can connect it to Home Assistant, you can now control it with your voice using the Amazon Echo, Google Home or your Android phone.



Automatiseringen  
& scenes

## Triggers

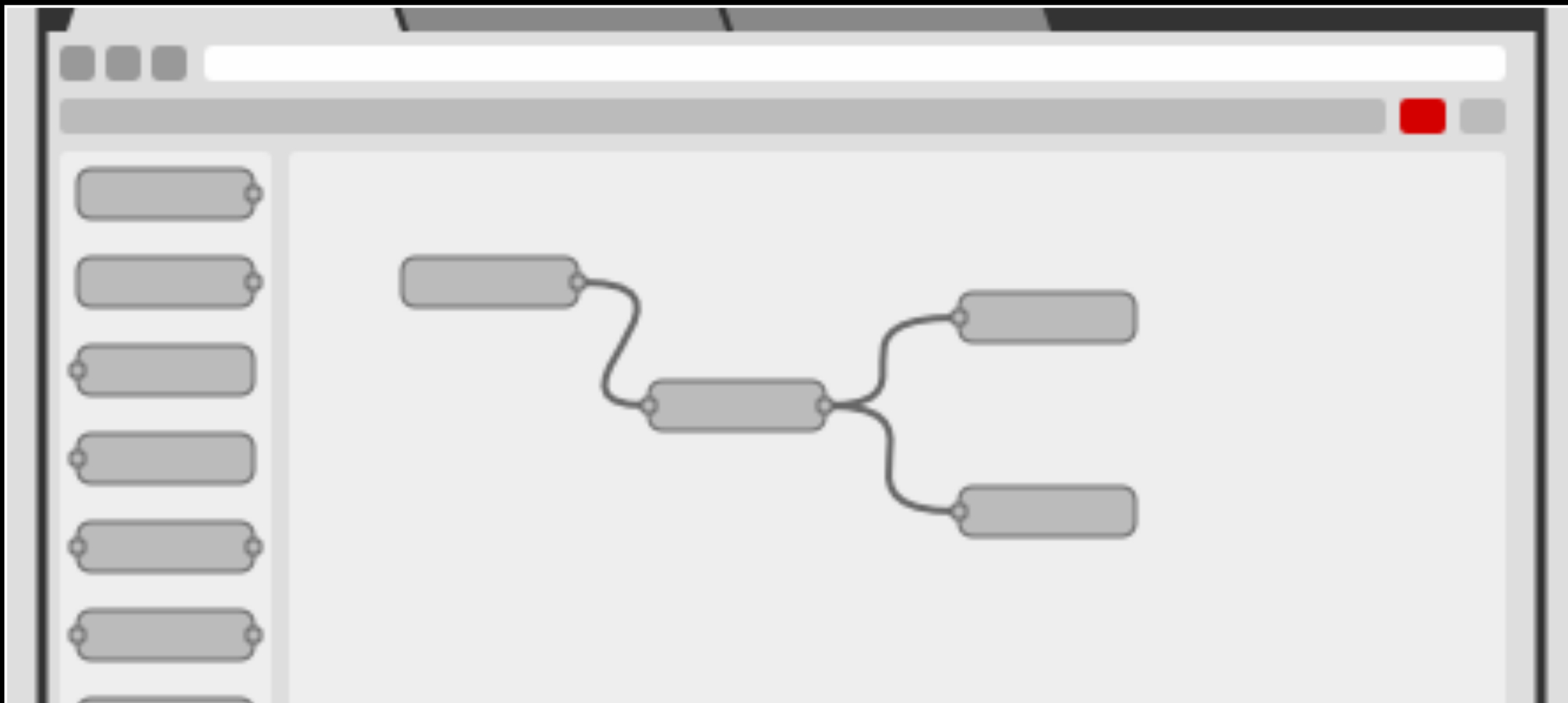
+ TRIGGER TOEVOEGEN

## Voorwaarden

+ VOORWAARDE TOEVOEGEN

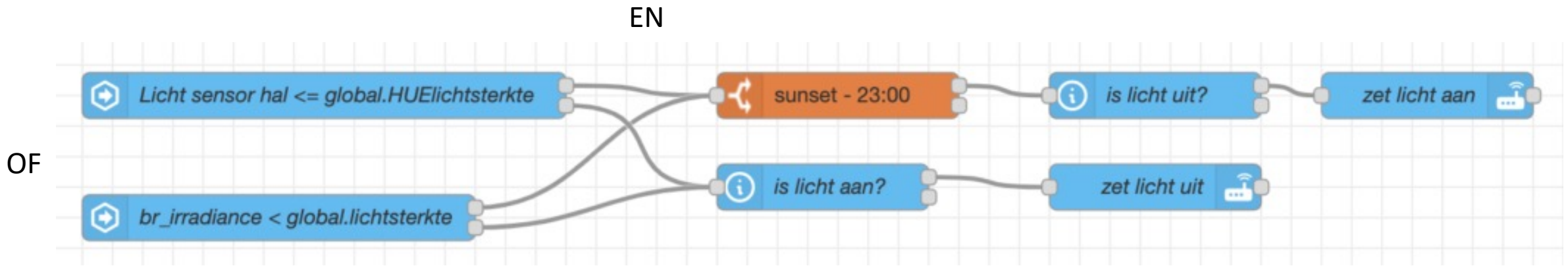
## Acties

+ VOEG ACTIE TOE

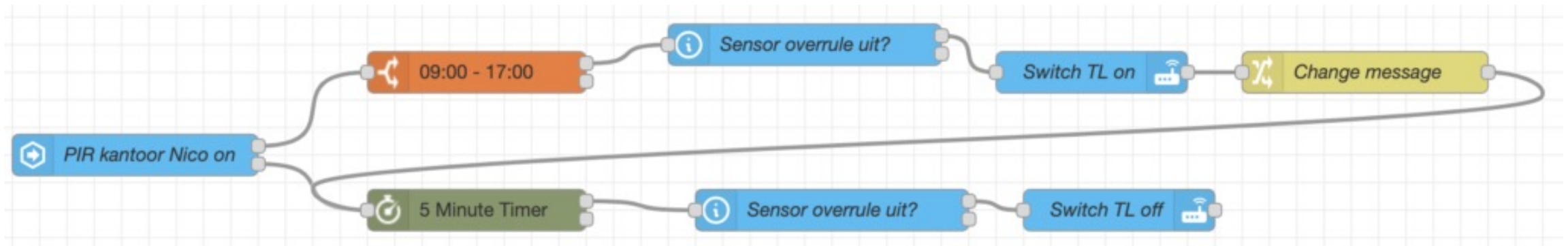


Automatisering met Node-RED





Licht aan als het donker wordt





Licht aan bij beweging

# De koffer

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**Home Alarm** Uitgeschakeld

INSCHAKELEN VOOR AFWEZIG    INSCHAKELEN VOOR NACHT

INSCHAKELEN VOOR VAKANTIE

Code

1	2	3
4	5	6
7	8	9
	0	WIS

# Alarm Systeem Demo





Elke 3e woensdag vd  
maand: Webinar



**hcc**  domotica / IOT



Vanaf september nieuwe  
workshops!

**hcc**  domotica / IOT



That's all folks!  
Q&A