Installatie

context

dit document beschrijft de installatie van Home Assistant

Docker

1. download de image:

```
docker pull homeassistant/home-assistant
```

2. start de container:

```
docker run -d --name homeAssistant -p 8123:8123 homeassistant/home-
assistant
```

3. open een browser op http://<DockerHost>:8123
4. doorloop de wizard: **CREATE MY SMARTHOME**

Debian

Important: source: ChatGPT
Moet nog gecontroleerd worden bij 1ste installatie

Staging Debian VM

- Create a Debian VM on ESXi
- Give it
  - 2–4 vCPU
  - 4GB RAM (more if you plan many integrations).
  - 20–30 GB disk is usually sufficient for Home Assistant OS installation inside Debian.
- Update Debian:

```
sudo apt update && sudo apt upgrade -y
```

```
sudo apt install -y software-properties-common curl
```

- Install dependencies for Home Assistant Supervised (if you choose this path)

Prepare for Zigbee integration

- Connect the Zigbee dongle to your Debian VM
- Plug the Zigbee USB dongle into your ESXi host.
- Pass it through to the Debian VM via **VM > Edit Settings > USB Controller > Add USB Device**
- Verify in Debian:

```
lsusb
dmesg | grep tty
```

You should see something like /dev/ttyUSB0 or /dev/ttyACM0.

- Install necessary tools (optional but useful):

```
sudo apt install -y git jq
```

Install Home Assistant Supervised on Debian

- Install Docker:

```
apt install -y docker.io
sudo systemctl enable docker
sudo systemctl start docker
sudo usermod -aG docker $USER
```

Install Home Assistant Supervised

```
curl -Lo installer.sh
https://raw.githubusercontent.com/home-assistant/supervised-installer/master
/installer.sh
bash installer.sh --machine qemux86-64
```

Verify Home Assistant

- Access in browser: http://<VM-IP>:8123
- Go through the onboarding wizard.

Set up Zigbee integration in Home Assistant

- Install Zigbee integration
- Use Zigbee2MQTT or ZHA (Zigbee Home Automation) add-on:
    - ZHA: Easiest, built into Home Assistant.
    - Go to **Settings > Devices & Services > Add Integration > Zigbee Home Automation**
    - Select your USB device (/dev/ttyUSB0).
    - Zigbee2MQTT: More flexible if you already use MQTT.
    - Zigbee2MQTT on Debian VM

```
git clone https://github.com/Koenkk/zigbee2mqtt.git
cd zigbee2mqtt
npm ci
cp configuration.yaml.example configuration.yaml
nano configuration.yaml  # set your serial port
npm start
```

- Pair your sensors
- Follow pairing instructions of your Zigbee sensor.
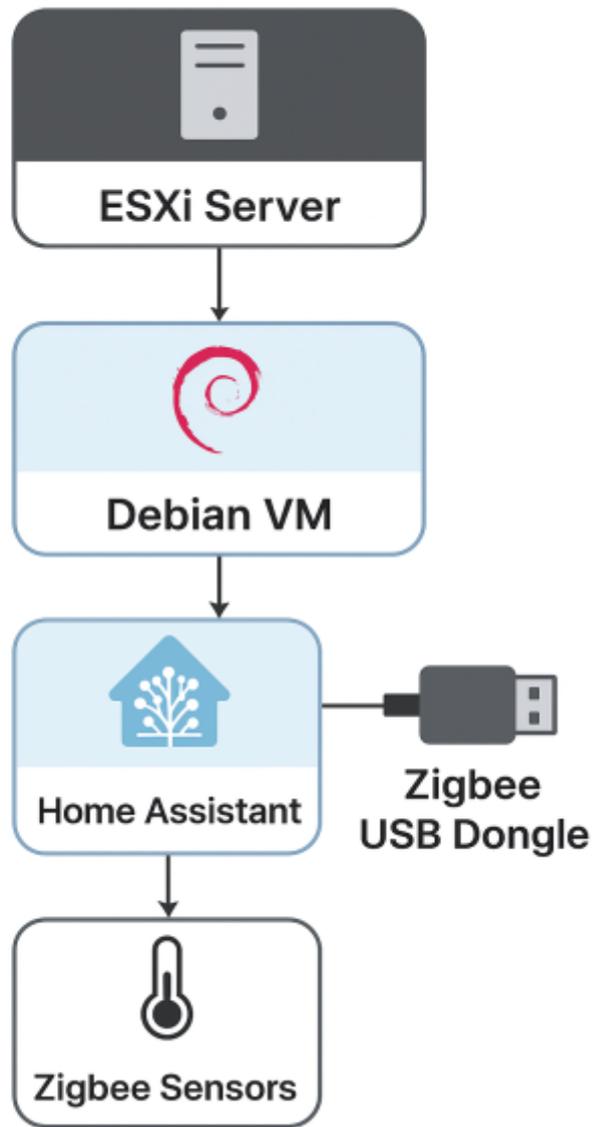- Once paired, Home Assistant should automatically detect temperature readings.

Automate and visualize

- Create a Lovelace card for temperature readings.
- Set automations to trigger events (e.g., if temp > 28°C, turn on a fan).

Optional enhancements

- Use Docker Compose for Home Assistant and Zigbee2MQTT if you want better control.
- Back up the Home Assistant VM regularly (snapshots on ESXi).
- Consider a dedicated Zigbee coordinator like CC2531, CC2652, or ConBee II for best reliability.

==== Diagram ====

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meer info

- Onboarding wizard
- Home Assistant homepage
- Docker installatie

home assistant, docker