



Chris Schuld

Forever nerd and SaaS entrepreneur. Intrigued by software engineering, software as a business and aviation.

[Home](#)

[Projects](#)

[Tags](#)

[About](#)

[Contact](#)

© 2020. All rights reserved.

Running Home Assistant with Docker (docker-compose)

30 Sep 2019

Home Assistant on Docker is easier than running it with HASSIO IMO. 🚀

Here is a high-altitude overview of how I run Home Assistant -and- then I'll dig into the details of my setup.

- Setup Raspbian with Docker and Docker-Compose
- Plugin my Aeon Z-wave script; make sure it's on /dev/ttyACM0
- Setup scripts for Docker-Compose
- Setup scripts so it runs on startup
- Create a backup process

Okay, details... here is how I run Home Assistant on Docker on a Raspberry Pi 4.

- Install **Raspbian** on the Raspberry Pi 4.
- Install **Docker and Docker-Compose**.
- Create `/root/docker-compose.yml` consisting of the following (*NOTE: I use the Aeon z-wave stick at /dev/ttyACM0*):

```
version: '3.7'
services:
  homeassistant:
    container_name: homeassistant
    image: homeassistant/raspberrypi4-homeassistant:latest
    network_mode: "host"
    ports:
      - "8123:8123"
    volumes:
      - /opt/homeassistant:/config
      - /etc/localtime:/etc/localtime:ro
      - /etc/letsencrypt:/etc/letsencrypt:ro
    devices:
      - /dev/ttyACM0:/dev/ttyACM0:rwm
    restart: always
    healthcheck:
      test: ["CMD", "curl", "-f", "http://127.0.0.1:8123"]
      interval: 30s
      timeout: 10s
      retries: 6
```

- Create the following file for automating the service on startup
`/etc/systemd/system/home-assistant.service`

```
# /etc/systemd/system/home-assistant.service
```

[Unit]

```
Description=Home Assistant Service
Requires=docker.service
After=docker.service
```

[Service]

```
WorkingDirectory=/root
ExecStart=/usr/local/bin/docker-compose up
ExecStop=/usr/local/bin/docker-compose down
```

```
TimeoutStartSec=0
Restart=on-failure
StartLimitIntervalSec=60
StartLimitBurst=3
```

[\[Install\]](#)

```
WantedBy=multi-user.target
```

- Run this `systemctl enable home-assistant.service`
- Run this `systemctl enable docker`

```
[ docker home-automation home-assistant ]
```

Related Posts

Base-58 Encoding really big numbers in MySQL (5.6>)(128 bit) 15 Apr 2020

An application building block: unique IDs for things 08 Apr 2020

Using OpenVPN to create a simple VPN for AWS with SSL/Let's Encrypt 02 Feb 2020