
Home Automation Stack

The stack contains everything to run FHEM on a Docker host. Mosquitto is used as message broker. SIRC functions are realized with the help of a homebridge container. The complete stack runs on x86 as well as arm architectures. It is very easy to clone its complete productive environment and has a simple way to build a test system.

Todo

- deCONZ Image Container Integration
- DBLog Integration

Requirements

- docker
- docker-compose

Installation raspberrypi

System Update

```
1 sudo apt-get update
2 sudo apt-get upgrade
```

Raspberry Config

```
1 sudo raspi-config
2 sudo reboot
```

Intall additional packages

```
1 sudo apt-get install wget git apt-transport-https vim telnet
```

Install docker

```
1 curl -sSL https://get.docker.com | sh
2 sudo systemctl enable docker
3 sudo systemctl start docker
4 sudo usermod -aG docker pi
```

git repository export

```
1 cd
2 git clone https://github.com/stormmurdock/fhemdocker.git
3 cd fhmdocker
```

Installation docker compose

```
1 sudo apt-get install python-pip
2 sudo pip install docker-compose
```

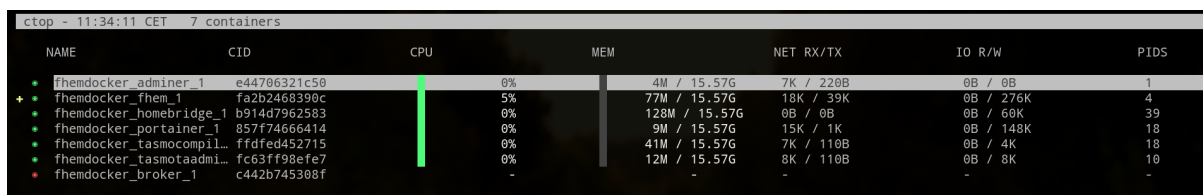
Start all container

```
1 docker-compose up
```

ctop

Description

ctop is a commandline monitoring tool for linux containers



The screenshot shows the ctop interface with columns for NAME, CID, CPU, MEM, NET RX/TX, IO R/W, and PIDS. The CPU column has a green bar chart. The containers listed are fhmdocker_adminer_1, fhmdocker_fhem_1, fhmdocker_homebridge_1, fhmdocker_portainer_1, fhmdocker_tasmocompil..., fhmdocker_tasmotaadmi..., and fhmdocker_broker_1.

NAME	CID	CPU	MEM	NET RX/TX	IO R/W	PIDS
• fhmdocker_adminer_1	e44706321c50	0%	4M / 15.57G	7K / 220B	0B / 0B	1
+ fhmdocker_fhem_1	fa2b2468390c	5%	77M / 15.57G	18K / 39K	0B / 276K	4
• fhmdocker_homebridge_1	b914d7962583	0%	128M / 15.57G	0B / 0B	0B / 60K	39
• fhmdocker_portainer_1	857f74666414	0%	9M / 15.57G	15K / 1K	0B / 148K	18
• fhmdocker_tasmocompil...	ffdfed452715	0%	41M / 15.57G	7K / 110B	0B / 4K	18
• fhmdocker_tasmotaadmi...	fc63ff98efe7	0%	12M / 15.57G	8K / 110B	0B / 8K	10
• fhmdocker_broker_1	c442b745308f	-	-	-	-	-

Abbildung 1: “ctop”

Installation

ctop is available in AUR, so you can install it using AUR helpers, such as YaY, in Arch Linux and its variants such as Antergos and Manjaro Linux.

```
1 sudo wget https://github.com/bcicen/ctop/releases/download/v0.7.3/
  ctop-0.7.3-linux-amd64 -O /usr/local/bin/ctop
2 sudo chmod +x /usr/local/bin/ctop
```