
Home Automation Stack

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 fhemdocker
```

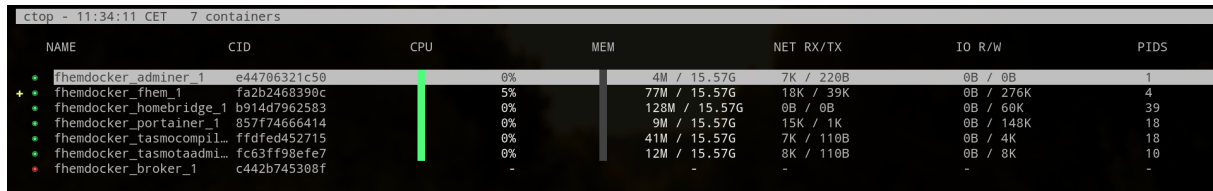
Installation docker compose

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

ctop

Description

ctop is a commandline monitoring tool for linux containers



The screenshot shows the ctop interface with a title bar indicating the time and number of containers. The main table lists container details including name, CID, CPU usage (with a green bar), memory usage, network I/O, and PIDs.

	NAME	CID	CPU	MEM	NET RX/TX	IO R/W	PIDS
•	fhemdocker_adminer_1	e44706321c50	0%	4M / 15.57G	7K / 220B	0B / 0B	1
+	fhemdocker_fhem_1	fa2b2468390c	5%	77M / 15.57G	18K / 39K	0B / 276K	4
•	fhemdocker_homebridge_1	b914d7962583	0%	128M / 15.57G	0B / 0B	0B / 60K	39
•	fhemdocker_portainer_1	857f74666414	0%	9M / 15.57G	15K / 1K	0B / 148K	18
•	fhemdocker_tasmocompil...	ffdfed452715	0%	41M / 15.57G	7K / 110B	0B / 4K	18
•	fhemdocker_tasmotaadmin...	fc63ff98efe7	0%	12M / 15.57G	8K / 110B	0B / 8K	10
•	fhemdocker_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
```