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## House Automation Stack

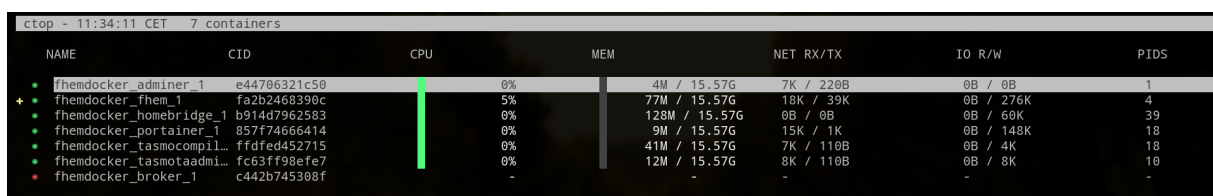
### Installation raspberrypi

```
1  sudo apt-get update
2  sudo apt-get upgrade
3
4  sudo raspi-config
5  sudo reboot
6
7  sudo apt-get install wget git apt-transport-https vim telnet
8
9  curl -sSL https://get.docker.com | sh
10 sudo systemctl enable docker
11 sudo systemctl start docker
12 sudo usermod -aG docker pi
13
14 cd
15 git clone -b raspbian https://github.com/klein0r/fhem-docker.git fhem
    -docker
16 cd fhem-docker
17
18 sudo apt-get install python-pip
19 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 with color-coded bars for CPU and memory usage.

| 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_tasmotaadmi... | 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.