

A tiny MQTT-Broker docker image

Intro

Some time ago I started to get a look at [MQTT](#) and needed a broker to start with. Eclipse Mosquitto (<http://mosquitto.org/>) was a logical choice for a quick start and as I am a fan of docker containers for not polluting your local system installation whilst trying new software stacks, I searched for a docker image with Mosquitto.

Of course, there were many, but I was a bit astonished about their size. **500MB** and **more**? That's not what I expected from an efficient docker build result. I started to check what the exact technical requirements of Mosquitto were and actually, it doesn't need so much to run.

Approach

The most simple way would be a small Linux coming at least with a package manager to get it up and running, as it is pointed out here: <https://mosquitto.org/download/>. The [OpenWRT](#) approach seemed to be the most interesting, as it is available for various CPU types and its known to be damn small.

Solution

A short time later the Dockerfile was written and an image which was packed below 4MB. I'd call that a success J You can find the results right here <https://hub.docker.com/r/mrinus/docker-openwrt-mosquitto/> or by doing a docker pull on *mrinus/docker-openwrt-*

mosquitto and run the image by:

```
docker run -p 1883:1883 -d mrinus/docker-openwrt-mosquito
```

[Dockerfile](#)

BTW

Just to mention it: Nowadays there is an official image locatable as [eclipse/mosquitto](#) which has an even smaller footprint. As they did not provide a build tagged *latest* you can run it by giving the latest build tag:

```
docker run eclipse/mosquitto:1.4.8 -p 1883:1883
```

Have fun exploring MQTT!