Anyone can explore the RF spectrum

OpenRFSense is an experimental software suite to explore radio frequency data using remote devices and a centralized server.

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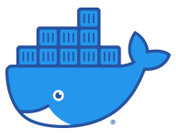
The OpenRF project is a suite of free-as-in-freedom software which uses a central control and reporting server to communicate with an arbitrary fleet of remote sensors. Each sensor (or "node", as it may be referred to) is equipped with a Software-defined Radio (or SDR for short), such as a cheap RTL-SDR.

This project is powered by the following technologies:


Getting started

Getting OpenRF up and running can be really easy, thanks to Docker. This guide will show examples and code snippets using fragments of Docker Compose configuration (`docker-compose.yml`) because of its relative ease of understanding and concise representation of containers and resources.

The backend has to be deployed first, but it requires a running PostgreSQL instance to store the radio measurements received from the sensors.

PostgreSQL

There are no particular requirements regarding the database structure, since the backend will automatically migrate the database table schemas it needs. The database can even be just