



onsite light and sound alarm system with cloud management



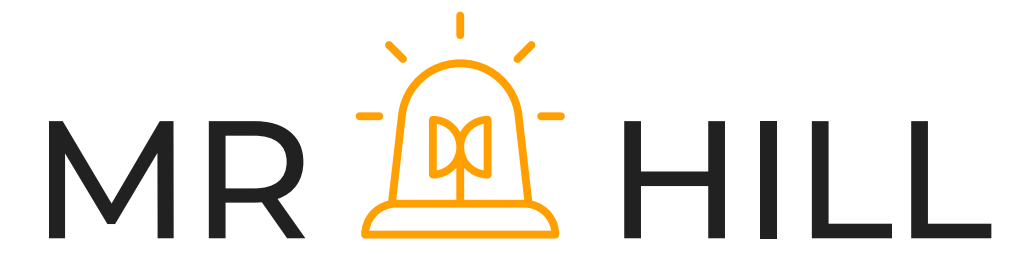
Project description

Mr. Hill is an IoT onsite light and sound alarm system with cloud management that prevents trespassing at the facilities. It does so by sending out alarming light and sound signals from the device, which is operated remotely by the responsible staff.

Main features

- Sound alarm up to 108 dB
- Alerts in multiple languages
- Remote controlling
- Light alarm
- Integration with other services
- Simple integration

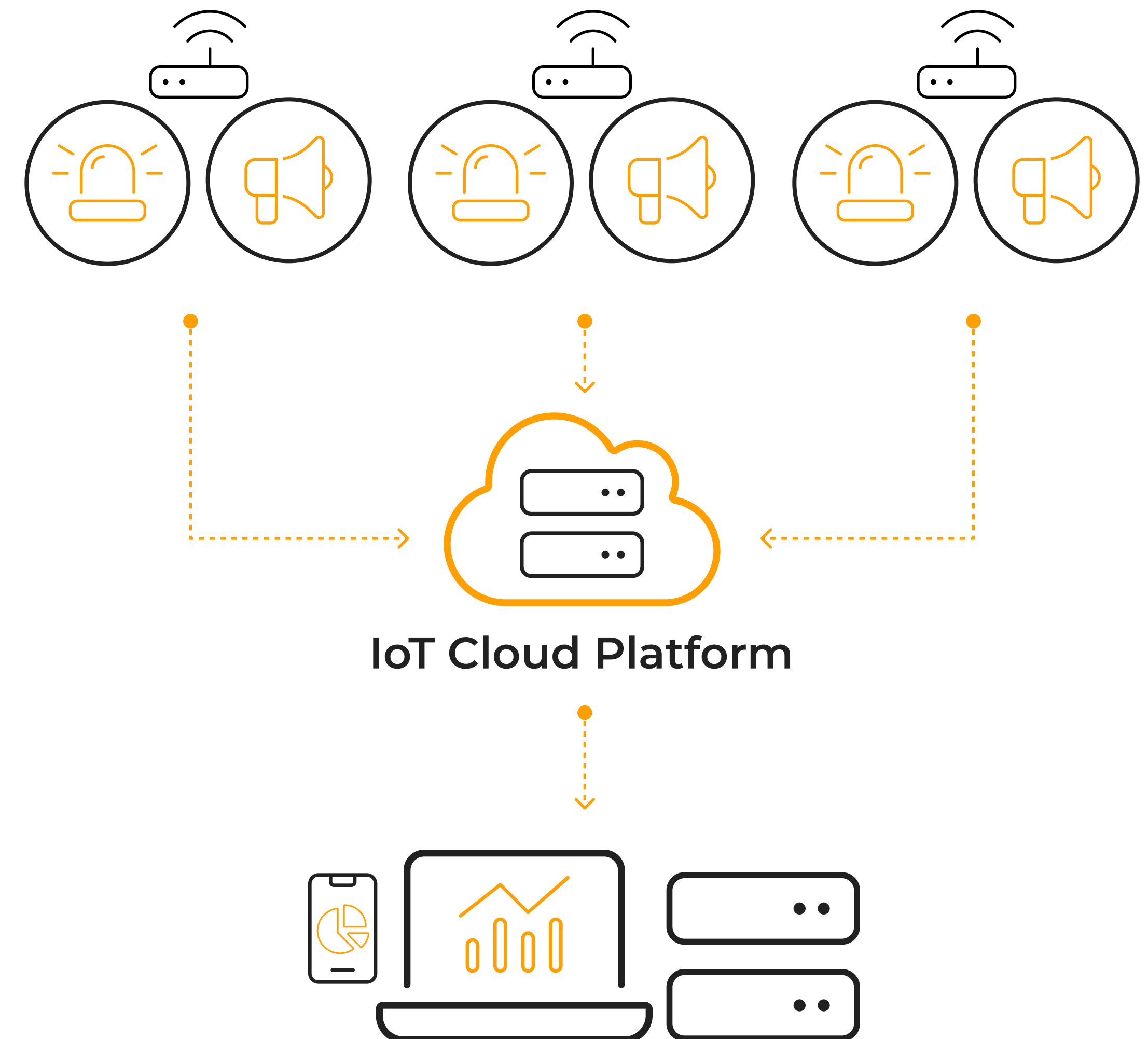




Connection diagram

One set of the Shield Box contains a mini remote controller and up to two light alarms.

Depending on the unit's square footage, there could be many sets of Shield Box set up on one guarded unit.





Objective

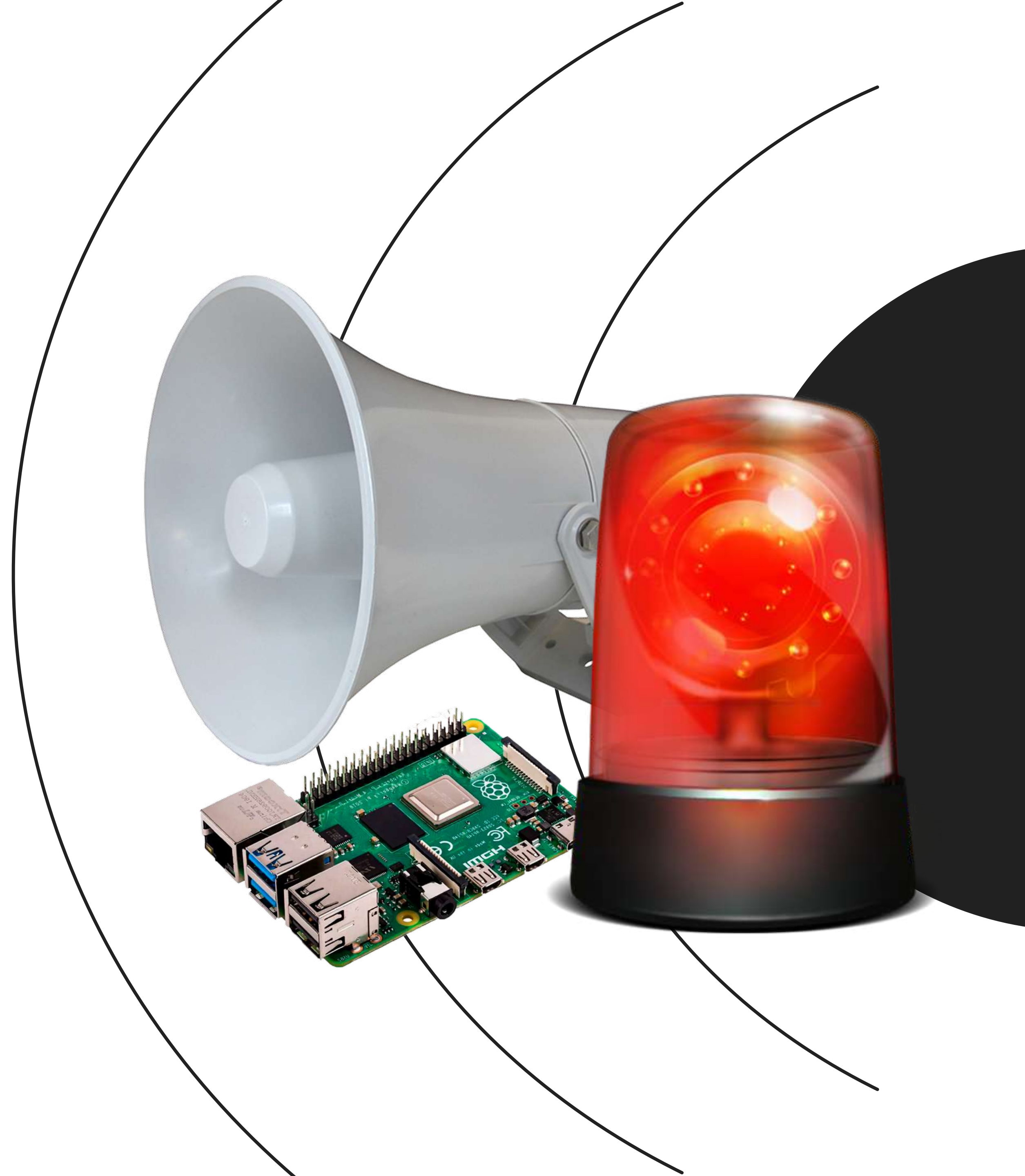
The objective was to create a complex sound and light system to deter perpetrators from trespassing on private property by evoking light and sound signals in a selected language.

A challenge was implementing real-time sound and light alarms that could be triggered instantly and make the audio and system settings adjustable.

- Audio and visual alerts
- Multiple languages support
- Fast response
- Easy integration with different platforms

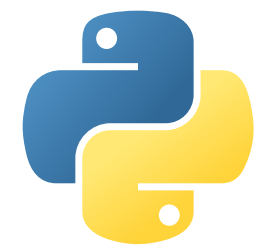
Solution

We have developed a small IoT device that can trigger connected alarms. The system has been integrated into the alarming system to allow easy configuration, audio modification, and status updates on each device.

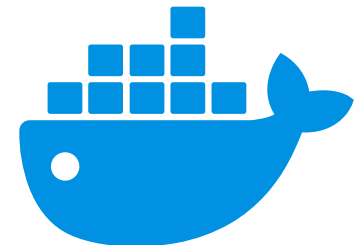




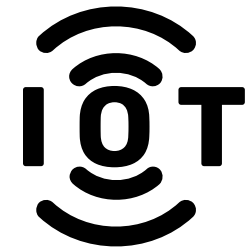
Technologies



Python



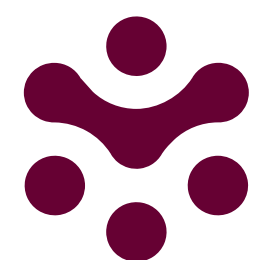
Docker



IoT



MQTT



Kapellmeister



ARMv8 (64 bit)



FastAPI

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weeks of
development



technologies of
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