



## Case Study

# About the Customer

Safehouse Technology Ltd provides IoT sensor monitoring for individuals who require support to live independently and to monitor their environmental conditions such as damp and temperature.

Common use cases include care provision and property maintenance through the use of sensors.

Safehouse helps organisations to monitor CO2 levels, movement, volume (screaming), temperature, humidity, door activation, light, barometric pressure, and movement in buildings.

Using Safehouse, care home providers are able to track the movement of residents, thus if an elderly person were to fall over, the system can alert management of the incident.

Other use cases include assisting those struggling with fuel poverty and general wellbeing issues. Door activation and movement sensors can be used to tell if there have been visits to the home and help prevent loneliness.

The products developed by Safehouse are designed for both the public and private sectors. They allow remote monitoring, data management, and data analytics through bespoke smart dashboards.

# The Challenge

Prior to the solution that was developed by Mobilise Cloud, Safehouse had been running its platform through Oracle 11 G. This meant that the cost of running the application was quite high,



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and scaling would invariably increase the cost. The team at Safehouse was using a large Oracle database to store the data collected from sensors that could then be reported on and used to create dashboards for the managed properties. This was proving to be costly with a large management overhead.

## The Solution

By liaising with Safehouse, Mobilise developed a cloud-based solution that uses AWS Elastic containers for the backend. Mobilise implemented a POC in conjunction with Safehouse using Elastic Search in place of the Oracle database.

This approach enabled Safehouse to store the output from their devices in a structured way, allowed them to move away from the costly Oracle solution, and still retain the ability to use the existing database queries from their app to interrogate the data.

### Application Architecture

To do away with the current Oracle-based system, Mobilise decided together with Safehouse that it would be efficient to go with a cloud-based solution. The favoured solution, in this case, was one that would utilise AWS Elastic container for the backend. The transition from Oracle had to be seamless so that Safehouse could function without interruption.

### Reporting and Monitoring

Mobilise Cloud provided a dashboard through which activity could be monitored. Data is transmitted in such a way that it is secure. Where Oracle stored single personal records, the new system provided encryption using lambda functions for data extraction.

## The Results

The solution once implemented cost Safehouse 1/100th of the cost that Safehouse had been incurring when using the previous system. The new system runs at an average cost of £3/month for 24-hour monitoring for one sensor.

“What is that, the price of a cappuccino?” Mused John Griffiths, the founder of Safehouse. It allows Safehouse the option to use Big Data to build up scenarios to be used for insight by property managers and other stakeholders.

Using AWS Elastic Cloud, Mobilise has been able to provide an effective solution and reduce management overheads, while maintaining the existing application integrations and with minimal changes to their data ingest process.

**James Carnie CTO of Mobilise Cloud commented, "Elastic Search gives Safehouse a cost-effective and scalable solution that will grow with the business. We look forward to more customers coming on-line."**

**To learn more about how Mobilise Cloud can help your organisation, speak to one of our advisors.**

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## About Mobilise Cloud

Mobilise helps government and commercial organisations to ensure their migration to Cloud is a success from strategy through to design, delivery and organisational and operational change.

Mobilise has a wealth of experience in gaining best value from IT infrastructure provision, and has partnered with the leading Cloud providers including Amazon Web Services and Microsoft Azure to ensure a range of industry leading options are available to replace IT infrastructure with the 'right cloud' service, and to deliver ongoing IT transformation through cloud native services at pace.

People are key to the transition to Cloud, and Mobilise is experienced in communicating the change and gaining buy-in at all levels of an organisation to create excitement and active participation, and enabling customer teams to ensure they can participate fully in the technology change required.

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Supplier



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