Modernising LeakBot's Infrastructure To Drive Innovation

The customer needed assistance to fully modernise LeakBot's infrastructure not only to resolve their current blockers, but to put them in a good place to scale their business. To do this, CTS were asked to support a full platform re-architecture.

The challenge

Due to technical debt inherited as part of the company's early start-up phase, the infrastructure running the back end of the LeakBot platform was proving increasingly difficult to support. As a result, LeakBot began to experience several issues that could no longer be resolved by the CTS support team. Acronyms:SRE=Site Reliability Engineering,PHP = programming language,mTLS=Mutual Transport Lay

The solution

CTS modernised a legacy VM-based applications stack, by repackaging into Docker microservices, including C++, NodeJS, and PHP elements. A new Cloud Build pipeline deploys to GKE Autopilot and uses Artefact Registry with container vulnerability scanning. Additionally, Anthos Service Mesh on GKE provides fully managed mTLS between services, and advanced observability for ongoing SRE operations.

The results

LeakBot is now running in an industry standard container environment that's fully supportable, highly available, scalable and secure, and runs at a significantly lower operational cost than the previous platform. Leakbot devs can now manage their own configuration with a new release process, reducing deployment time by around 70%, with improved monitoring and logging.

> " The team deployed on this project from CTS were extremely knowledgeable and professional. I was particularly happy with the support provided during the cut-over / go-live period. Some unexpected issues resulted in an extended period of fixing and support. During this time my own team felt that their 'pain' was CTS's 'pain' and the successful completion of the project was a shared / owned endeavour "
>
> Chris Jelley, Chief Technology Officer for Ondo Insurtech Plc

About LeakBot

Ondo Insurtech Plc are an InsureTech company who partner with top insurers across the UK, US and the Nordics, supplying their innovative product LeakBot to homeowner end-users across these regions. LeakBot is an internet of things (IoT) smart water leak detector that monitors homes 24/7, using clever technology to alert users to leaks in their home
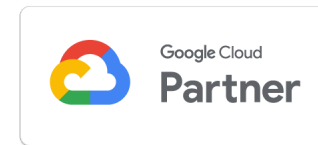
Industry: Financial Services

Primary project location: United Kingdom

About Cloud Technology Solutions Ltd

CTS is one of Europe's largest dedicated Google Cloud Managed Service Providers. They offer unique full-stack solutions for GCP and Workspace.

Products

Google Cloud Platform