



Infogain Improves Time-to-Market, Scalability and Security for a Leading Medical Device Company with DevSecOps on Google Cloud Platform

Infogain architected and deployed a fully automated DevSecOps process for APIs on Google Cloud Platform (GCP)

Client Background

Our client is a leading medical device company that develops, manufactures and distributes continuous glucose monitoring systems for diabetes management.

Business & Technical Challenges

Our client wanted a solution that would allow them to quickly update Application Programming Interfaces (API's) within their organization. Due to the Health Insurance Portability and Accountability Act (HIPAA) requirements, the end user data must be compliant with regulations. To achieve future business goals, APIs will require comprehensive testing for performance, scalability and cyber security.

Our client plans to extend Infogain's solution to additional product lines, mobile applications and Internet of Things (IoT) backend environments.

Infogain Approach

Infogain architected and deployed a fully automated DevSecOps process for the client's APIs on GCP using Docker & Google Kubernetes Engine (GKE). Our solution included:

- **Code to production deployment:** automated the process with REST based APIs to call Bamboo server to build & test, including workflow for multi-stage build plans. As part of continuous delivery, triggers were set up to start builds with a code-commit.
- **Docker images:** automated the creation and deployment of Docker images that contained APIs to be deployed, using Gradle as the build tool. Automated deployment of Docker Images on GKE using GKE APIs
- **Testing:** Automated testing for unit, integration and regression tests to thoroughly test code with each change to reduce risk, making it easier and faster to find bugs
- **Publishing:** Automated publishing into Bamboo of test artifacts including logs, reports, traces to build Plan, etc.

Business impact delivered



Cost



Revenue



Speed-to-Value



Risk



Innovation

Infogain edge

Infogain accelerates customers' technology transformation, leveraging our deep design and engineering expertise with industrial strength expertise in the Google Cloud Platform.

Key Benefits

The client received these key benefits provided by Infogain:

- Better mobile & IoT application performance
- Speed-to-market with fully automated processes deployed within minutes, rather than days
- Improved code reliability with full automation of deployment processes
- Improved scalability with automated testing
- Increased developer productivity
- Mitigated risk with Robust API Security with automated cybersecurity testing

Why Infogain

Infogain brings the following strengths to each engagement:

- Contemporary and immersive software solutions for a better user experience
- Cost effective global delivery model
- Experienced Google Cloud team of architects and developers
- Next-gen technology expertise with Artificial intelligence/Machine Learning (AI/ML), Analytics and IoT
- Proven practices for managing software delivery

About Infogain

Infogain is a Silicon Valley headquartered company with software platform engineering and deep domain expertise in travel, retail, insurance and high technology. We accelerate the delivery of digital customer engagement systems using digital technologies such as cloud, microservices, robotic process automation and artificial intelligence to our clients.