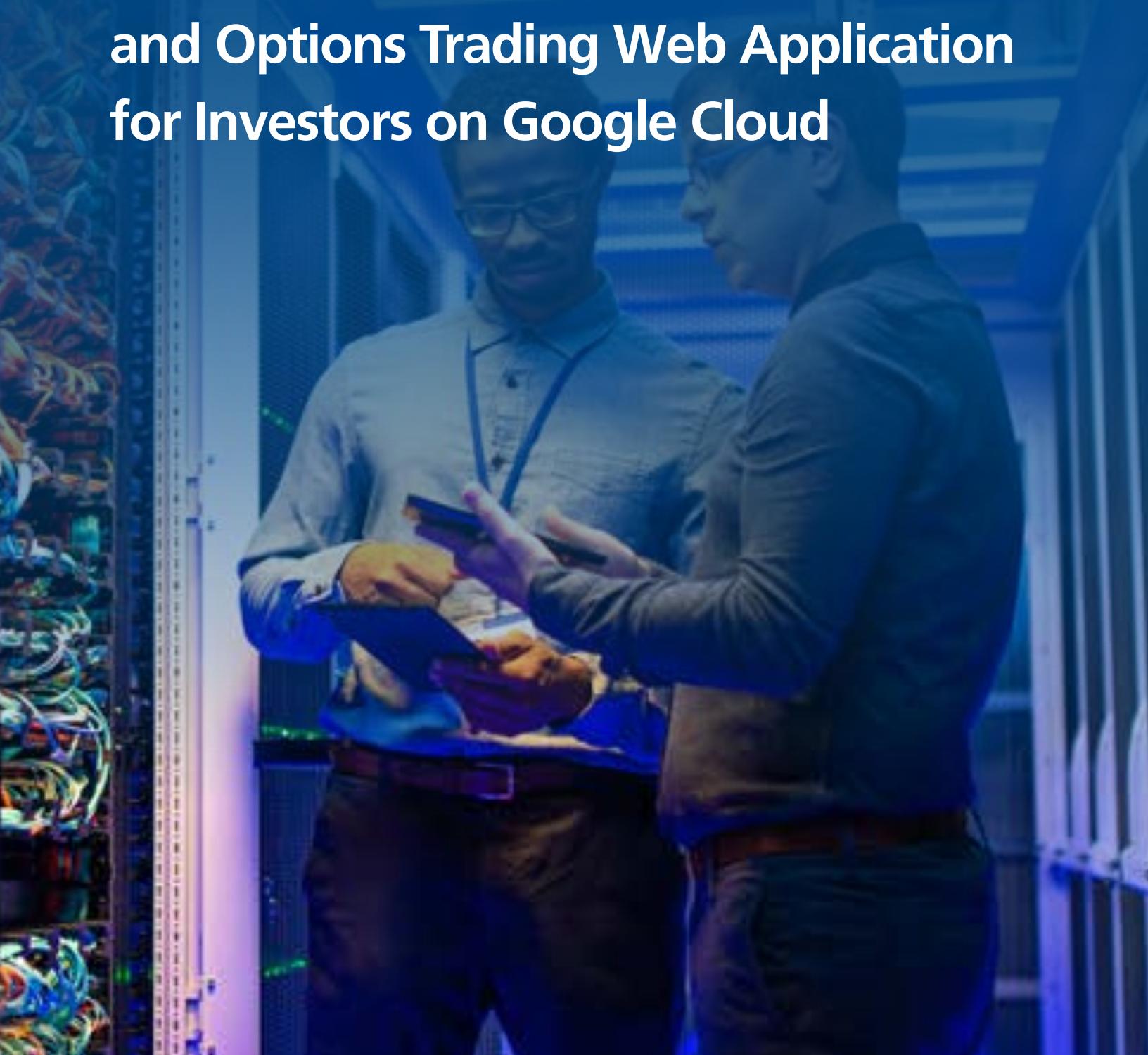


CASE STUDY

# Migrating and Modernizing Future and Options Trading Web Application for Investors on Google Cloud



## **Client**

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The client is a major British universal banking and financial services company. It has historical and business links to East Asia and a multinational footprint.

## Challenges

- The client wanted to migrate applications to Google Cloud Platform (GCP) to harness on-demand scalability benefits.
- Issues with application performance, such as slow initial page loading and delayed responses, negatively impacted user experience.
- Manual testing and deployment procedures extended the cycle time between requirements and releases.
- The aim was to optimize costs by leveraging efficient cloud computing resources and managed services on GCP.
- The company also wanted to reduce licensing costs for the database and web server.

## LTIMindtree solution

Frontend and backend containerized deployment on Google Kubernetes Engine (GKE), a managed service

Transition from on-premises licensed software to open-source software on GCP (Oracle to PostgreSQL, WebSphere to Tomcat)

Data migration from Oracle to PostgreSQL

Implementation of an automated end-to-end process for building, testing, security, and deployment through a DevSecOps pipeline

Performance benchmarking of the migrated application in comparison to its previous on-premises version

Code quality assessments and vulnerability scans, addressing issues to ensure the application complies with cloud cybersecurity standards

## Benefits & outcomes

Inaugural application launch on GCP's India region

Elevated quality through automated testing and deployments

Enhanced visibility and adherence to SLAs using cloud monitoring and alerts for proactive fault detection and resolution

A 50% enhancement in application performance

80% faster deployments

Cost savings of USD 1.5 million over a 5-year project period

## Tech Stack

- Google Cloud
- Google Cloud Kubernetes Engine
- PostgreSQL
- Aqua
- Ora2pg
- Checkmarx
- SonarQube
- nexus IQ server
- Java
- spring boot
- Selenium
- Grafana
- Prometheus



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