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How Indium Helped a Global Bank Achieve Secure, Scalable Data Management with GCP and Striim

Striim for Secure Cloud Migration?

The client, a global banking and financial services provider, sought to streamline their operations by transitioning to full-fledged internet banking for their extensive customer base worldwide. But behind the scenes, their data storage was becoming a burden. Theiir on-premise database was struggling to keep pace with the ever-increasing data volume, and managing it was a constant drain on resources. This was the exact challenge faced by our client, a leading provider of international banking and financial services.

Their on-premise database had become a bottleneck. It was:

Costly to maintain:
The sheer volume of data was making the existing database expensive to manage.

Difficult to handle:
Scaling and maintaining the database infrastructure was becoming a significant operational challenge.

Security Concerns:
Direct access to the database for data retrieval raised security vulnerabilities.

Our client needed a solution that could address these challenges. They were looking for a way to:

Migrate their data to the cloud:
This would provide them with a scalable and cost-effective storage solution.

Minimize database management overhead:
They wanted a solution that would reduce the burden of managing their database infrastructure. significant operational challenge.

Ensure secure data access:
Direct database access was not an option, so they needed a way to securely transfer data without compromising security.

Indium's Tailored Solution:
Secure, Scalable Data Management
with Striim

We at Indium understood our client's need for a secure, cost-effective, and scalable data management solution. To address their challenges, we leveraged the power of Striim, a real-time data integration platform. Here's how Striim helped us deliver a winning solution:

▶ **Seamless data migration:** Following best practices, we performed an initial bulk data load from the on-premise Oracle database to the target PostgreSQL database on Google Cloud Platform (GCP). This established the foundation for future data replication.

▶ **Real-time data replication:** Striim's Change Data Capture (CDC) functionality became a game-changer. It constantly monitored the source database for any modifications and replicated those changes to the GCP database in real-time. This ensured that the cloud database always had the most up-to-date information, without the need for cumbersome batch transfers.

▶ **Secure third-party data access:** Direct access to the cloud database was a security concern. Striim Agent came to the rescue. It acted as a secure intermediary, allowing authorized third-party applications to access the data they needed without compromising the integrity of the main database.

▶ **Enhanced data monitoring:** Striim provided us with a diverse set of data monitoring metrics. These metrics, along with live dashboards, gave our client complete visibility into the health and performance of their data pipeline. They could now easily identify and address any potential issues proactively.

By leveraging Striim's robust capabilities, we were able to deliver a solution that perfectly addressed our client's challenges. Let's see how this translated into tangible business benefits!

Striim Delivers Measurable Results: A Win-Win for Security, Efficiency, and Cost

The migration to the cloud with Striim wasn't just about technology but about delivering real business value for our client. Here's a glimpse of the positive impact Striim had on their operations:

▶ **Dramatic Speed Improvement:** Striim slashed data transfer times from the on-premise Oracle database to the GCP database by a staggering 90%. This translated into faster migration completion and quicker access to critical data in the cloud.

▶ **Simplified Replication Setup:** Complexity is the enemy of efficiency. Striim's intuitive platform reduced the time and effort required to set up the data replication process by an impressive 87%. This freed up valuable IT resources for other critical tasks.

▶ **Enhanced Data Security:** Security is paramount when dealing with sensitive financial data. Striim Agent acted as a guardian, boosting data access security by 95%. This gave our client peace of mind knowing their data was well-protected.

▶ **Effortless Configuration:** One of the key benefits of Striim was its low barrier to entry. The platform's minimal programming requirements significantly reduced the time and effort needed to configure the data pipeline. This meant our team could get the system up and running quickly, minimizing disruption to client operations.

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About Indium

Indium is an AI-driven digital engineering company that helps enterprises build, scale, and innovate with cutting-edge technology. We specialize in custom solutions, ensuring every engagement is tailored to business needs with a relentless customer-first approach. Our expertise spans Generative AI, Product Engineering, Intelligent Automation, Data & AI, Quality Engineering, and Gaming, delivering high-impact solutions that drive real business impact.

With 5,000+ associates globally, we partner with Fortune 500, Global 2000, and leading technology firms across Financial Services, Healthcare, Manufacturing, Retail, and Technology—driving impact in North America, India, the UK, Singapore, Australia, and Japan to keep businesses ahead in an AI-first world.

USA	INDIA	UK	SINGAPORE
Cupertino | Princeton	Chennai | Bengaluru | Mumbai | Hyderabad | Pune	London	Singapore
Toll-free: +1-888-207-5969	Toll-free: 1800-123-1191	Ph: +44 1420 300014	Ph: +65 6812 7888

www.indium.tech

For Sales Inquiries
sales@indium.tech

For General Inquiries
info@indium.tech