EDB POSTGRES AI

CUSTOMER SUCCESS STORIES

50x Growth, Zero Compromise: Trianz's Database Transformation with EDB Postgres®

TRIANZ ACCELERATING DIGITAL EVOLUTION

CUSTOMER: **TRIANZ**

EDB customer since December 2018

Mohamed Haris
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CHALLENGE: Migrating 4TB of payment platform data and thousands of Oracle-stored procedures to PostgreSQL while maintaining PCI compliance and zero downtime

EDB SOLUTIONS: EDB Enterprise Plan

RESULTS: By partnering with EDB, Trianz successfully migrated its entire payment infrastructure to Postgres and significantly scaled its payment processing volume, while reducing costs and ensuring security compliance.

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OVERVIEW

Accelerating digital transformation

Since its inception, Trianz has been focused on building cutting-edge platforms that leverage cloud computing, data analytics, artificial intelligence, and digital experiences to drive innovation and deliver a competitive advantage for its clients.

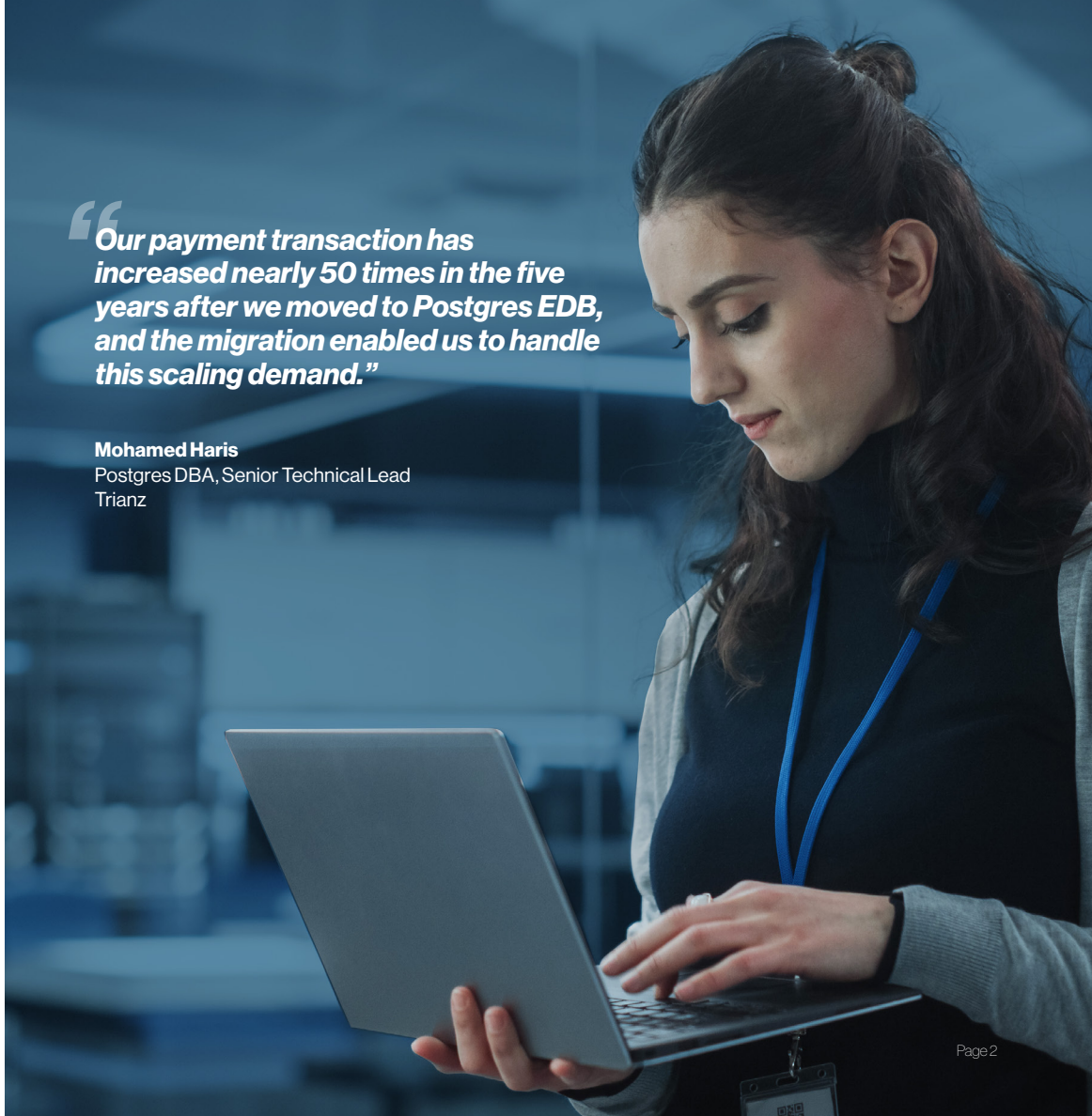
When evaluating its technology stack, Trianz identified an opportunity to optimize its payment gateway platform. IT leaders at Trianz determined that by migrating from Oracle to PostgreSQL, they could reduce operational costs, provide greater technical flexibility, and better align with their clients' technology preferences, as many were already using PostgreSQL. Migrating would also support their broader mission of helping clients achieve successful digital transformations with higher returns on investment.

EDB becomes the bridge to Postgres

There was one major challenge with migrating to Postgres—the 4TB of data and thousands of stored procedures that needed to be replicated and moved from Oracle to PostgreSQL. These procedures weren't just simple database operations; they contained 80% of the platform's core business logic, handling everything from data validation to transaction processing. This deep integration meant that any new database solution would need to maintain compatibility with Oracle's specific coding approach—a critical requirement for preserving years of development work and ensuring uninterrupted service during migration and beyond.

EnterpriseDB (EDB) emerged as the ideal solution because it offered a unique combination of benefits: native Oracle compatibility, which allowed Trianz to preserve its investment in existing stored procedures; ACID compliance for maintaining transaction integrity; robust high-availability features for seamless service; and significant cost advantages compared to Oracle. By choosing EDB Postgres, Trianz could modernize its database infrastructure while minimizing the risks and complexity typically associated with large-scale migrations.

"After considering cost, performance, business benefits, and everything else, EDB was the clear choice," says Trianz's senior technical lead Mohamed Haris.



Keeping business—and 4TB of data—flowing

In order to move 4TB of data to Postgres, the team accomplished the migration from Oracle to Postgres in phases. After implementing its EDB Postgres setup, Trianz moved to a single master model, with standby nodes across multiple regions, to improve reliability and scalability for its growing transaction volume.

Securing sensitive data without compromise

As a processor of sensitive payment data, Trianz operates under strict security requirements. Its system must comply with multiple security frameworks, including the Payment Card Industry Data Security Standard (PCI DSS), SOC, and ISO certifications. Meeting these annual certification standards demands comprehensive security measures throughout the PostgreSQL infrastructure.

EDB plays a crucial role in meeting these security requirements by enhancing Postgres with built-in features such as data encryption, detailed user access controls, and secure login systems. Transparent data encryption (TDE) automatically encrypts data before it's written to disk and decrypts it when authorized users or applications need to access it, without requiring any changes to the application code.

EDB's comprehensive audit logging tracks all database activity—a key requirement for PCI DSS compliance. Through regular security updates and patches, EDB helps Trianz maintain strong security protections while streamlining its certification process.

Charting a path to growth with EDB

Trianz keeps pushing the boundaries of its database environment, incorporating AI-driven technologies and disruptive tools to handle ever-increasing payment volumes. This forward-thinking approach helps its clients maintain a competitive edge and capitalize on emerging opportunities.

The switch to EDB Postgres has been game-changing, with Trianz experiencing a 50-times increase in processing capacity over five years, alongside reduced operational cost. Even with this dramatic growth, the platform maintains rigorous PCI compliance, with EDB Postgres's high-availability architecture helping to ensure reliable service as transaction volumes continue to grow.

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About EDB Postgres AI

EDB Postgres AI is the first open, enterprise-grade sovereign data and AI platform, with a secure, compliant, and fully scalable environment, on premises and across clouds. Supported by a global partner network, EDB Postgres AI unifies transactional, analytical, and AI workloads, enabling organizations to operationalize their data and LLMs where, when, and how they need it. For more information, visit www.enterprisedb.com.