

Enterprises in the Asia/Pacific region are accelerating their relational database modernisation initiatives as they combat cost pressures and data growth, as well as recognise the need for intelligence to support the operational needs of their digital businesses.

Fuelling Innovation with Open Source Database Transformation

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Written by: Linus Lai, Vice President, Digital Business, Trust and Services, IDC Asia/Pacific

Introduction

This Event At A Glance presents the key takeaways from a webinar hosted by CIO Australia, which threw the spotlight on the strategies and approaches organisations can adopt to accelerate business value by modernising their legacy database environments.

Hosted by CIO Australia's editor-in-chief, Bryron Conolly, the interactive panel discussion was a conversation starter across a spectrum of industries, providing a platform for heads of IT, infrastructure, and operations across the region to share their views and experiences.

Key discussions on database transformation

Open source data transformation is a hot topic as enterprises digitalise their operations and seek to unlock the full potential of their open source databases. The session focused on three discussions around open source database migration and modernisation:

- » The data modernisation imperative with the rise in data-driven enterprise business models. Examples include Telkomsel's (Indonesia) recommendation engine, Ngern Tid Lor (Thailand) for underwriting, AGL (Australia) for customer data analytics, and PayMaya (Philippines) for its AI-powered ID validation service.
- » How enterprises with a large installed base of relational database management systems (RDBMS) are now facing new opportunities with edge data growth, operational analytics, cloud migration, data engineering and open source DBMS options.

AT A GLANCE

CIO WEBINAR

November 10, 2022

Webinar topic: *Fuelling Innovation with Open Source Database Transformation*

SPEAKERS

- » Byron Conolly, Editor-in-Chief for CIO Australia, as host
- » Linus Lai, Vice President, IDC Asia/Pacific
- » William McDonald, Regional Director for Australia and New Zealand, EDB
- » Ajit Gadge, Field Chief Technology Officer, EDB

- » How the prevalence and benefits of open source databases can weigh in on application development, operational overheads, skills shortages, and resiliency measures.

Five key takeaways emerged from the discussions:

- » **RDBMS power today's enterprises:** Many enterprises are still running mission-critical RDMS that power back-office and transactional systems of records. IDC's Worldwide DBMS Forecast Update in August 2022 showed that RDMS spending is 5x higher than other DBMS technologies. As the number of new application portfolios continues to increase, delaying modernisation can impact an enterprise's operational cost, business agility, and resiliency.
- » **Upholding data integrity amid edge, IoT, and cloud growth:** An increased use of streaming technology, driven in part by improvements in communication speeds and by the proliferation of IoT devices, is generating tremendous volumes of data from the edge. This will drive the demand for high-capacity databases capable of ingesting and processing data at extremely high rates that still support analytics in detail. Database models based on the guiding principles of the ACID approach — atomicity, consistency, isolation, and durability (ACID) — support transactional and complex queries with new capabilities such as in-memory and cloud deployments, ensuring consistency and data integrity.
- » **Growing prevalence of open source DBMS:** The lower cost of acquisition and operations makes open source software an attractive option. As enterprises switch to these systems, their total cost will be reduced while innovation and security increases. According to an IDC Server and Storage Workloads study, when asked about their use of structured data management, an all-time high of 29% surveyed use open source, compared to 55% for packaged options.
- » **Software developers gravitate towards open source:** Enterprises' developer teams who are building new applications prefer open source software and components. Open source allows more innovative experimentation and delivers new capabilities that integrate well with other software components. According to IDC's Asia/Pacific Software Survey 2022, powering data-driven decision making is a key driver for today's software innovation projects.
- » **Total cost of operations a key factor:** Enterprises in Asia/Pacific agree that open source software does lower the cost of operations, many of which are related to security, performance optimisation, backup and archival, provisioning, governance and compliance as well as monitoring. Often hidden costs, these areas can blindside enterprises. Factoring these into the overall decision making will help determine the *real* cost of software licensing.

“When it comes to open source databases, Postgres is well-recognised by developers. EDB has helped many organisations deploy Postgres in their mission-critical workloads, lifting them from legacy databases and providing them with the option of both on-premises and cloud deployment. The outcomes of these migration and modernisation efforts include cost savings, better agility, performance, and scalability.”

Ajit Gadge, Field CTO, EDB

IDC's point of view

Enterprises today are focused on executing digital-first strategies with new business models by innovating on digital products, services, and experiences. In IDC's Future Enterprise Resiliency and Spending Survey 2022, the top critical levers to running a digital business include using data and intelligence strategically to create competitive differentiation. With the increased use of open source software in structured data management, enterprises will need help in their migration and modernisation efforts to scale beyond the developer community and to reap the benefits of multicloud data platforms. Finding the right partner will be key to achieving cost savings and gaining access to skills as well as third-party integration and resiliency options.

About the analyst



Linus Lai, Vice President Digital Business, Trust and Services, IDC Asia/Pacific

Linus Lai is a VP in IDC Asia/Pacific, and Chief Analyst for ANZ. He has more than 25 years of industry experience. Based in Sydney, he leads IDC's research programs in Digital Business, Future of Trust and Services Sourcing. Linus is a founding member of IDC Global's Future of Digital Innovation Council and is on the judging panel of Foundry Australia's CIO50 as well as the region's CSO30.

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Regardless of anywhere you are on your data management, application development or Postgres journeys, you need options that are flexible enough to fit your business now and in the future.

EDB provides a seamless migration experience for enterprises seeking open source database transformation, and a variety of deployments for on-premise and cloud—all supported by a team of industry-leading specialists who are dedicated to ensuring that you have the power of Postgres wherever and whenever you need it. Explore [here](#) to learn more.

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