



Database Migration

Challenges

Legacy On-Premises Databases Hindering Business Agility. A seamless migration especially with technology

Many businesses struggle with on-premises database systems due to high costs, operational silos, security risks, and inflexibility. Migrating these systems to AWS is a cost-effective solution, but often presents challenges, including complex code, data quality issues, and performance risks. Ensuring a smooth transition without disruptions while adapting to new technologies is essential.

The ELCA Solution

Seamless AWS Migration for Enhanced Efficiency. Precise assessment, transformation, security, and performance optimization for a smooth shift.

Our comprehensive database migration service is tailored to address these challenges. We offer a detailed assessment and planning phase to identify complexities and create a migration plan. We efficiently handle data transformation, mapping, and security, ensuring sensitive data protection. Our experts optimize performance in the AWS cloud, addressing potential issues. We validate the migration through automated and manual checks to ensure data integrity and system accuracy. Whether it's a lift and shift or technology change/modernization migration, we provide a seamless transition, minimizing risks and maximizing benefits.

Benefits

Our service offers expertise in diverse database technologies, tailored migration solutions, and meticulous data model mapping for seamless transitions, data integrity and a smooth migration process.

Benefit #1

Expertise in Diverse Technologies: Our team's in-depth knowledge spans legacy and modern database technologies, guaranteeing a smooth transition between systems.

Benefit #2

Tailored Migration Solutions: We provide blueprints for the most suitable migration technologies, customizing the process to meet your unique requirements.

Benefit #3

Data Integrity Assurance: Our extensive experience, data model mapping, and testing ensure data integrity, mitigating potential issues and guaranteeing a seamless migration.

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ELCA on AWS

Our solutions seamlessly integrates AWS's powerful cloud infrastructure with our expertise. Our deep knowledge in database migrations ensures a smooth transition, leveraging AWS tools for optimal efficiency. From meticulous planning to execution, we enhance scalability, security, and cost-effectiveness. Clients benefit from our tailored solutions, addressing intricate challenges with precision. The synergy between our expertise and AWS services results in streamlined processes, reduced downtime, and future-ready infrastructure. This collaboration unlocks the full potential of cloud computing, providing clients with a competitive edge, robust data solutions, and a foundation for innovation in a rapidly evolving digital landscape.

ELCA

Use Case: Oracle to AWS Redshift



> Challenges

A major challenge for our client, utilizing an on-premises Oracle database, revolves around soaring license and maintenance costs, inadequate security measures, scalability issues, and a complex web of stored procedures leading to a "single point of knowledge" risk.

> Solution

Our solution involves a meticulous migration to AWS Redshift, a cloud-native database service. Using state-of-the-art technologies and specialized tools, we address the complexity of schema conversion and handle non-trivial scenarios with expertise. Simultaneously, we architect a new cloud-native application with modern technologies, documenting intricacies for enhanced maintainability and future adaptability.

> Results

The migration yields immediate benefits, including enhanced scalability and availability, a substantial reduction in costs, improved instance management, increased security measures, and the availability of advanced analysis, visualization, and data science tools. The client gains agility in adapting to market changes and optimizing operations for efficiency and competitiveness.



Features

Automated Testing

Our migration strategy incorporates automated testing, leveraging our test managers to validate selected queries. This ensures a robust testing process, optimizing coverage with unit tests and regression tests. Automation not only expedites the migration but also guarantees the reliability and performance of the migrated system.

AWS Migration Service

To streamline the migration process, we employ AWS Migration Service, especially AWS Schema Converter, a powerful tool facilitating the conversion of Oracle schemas to Redshift-compatible formats. This accelerates the migration timeline, reduces manual effort, and ensures a seamless transition while preserving data integrity and structure.

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Get started with ELCA solutions on AWS



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We make it work.