

A woman with dark curly hair and a man with a grey beard and glasses are sitting at a desk in a modern office. The woman is leaning over the desk, looking at a laptop screen. The man is sitting next to her, also looking at the laptop. There are papers and a glass of water on the desk. The background shows office shelves and lights.

HEXAWARE

Comprehensive AWS Redshift Migration for a Japanese Digital Services MNC

Hexaware's multi-cloud modernization slashed
TCO by 30% with a seamless AWS cloud migration.

Case study

Client

| Client

- Challenge
- Solution
- Benefits
- Summary

Leading Global Technology Company

The client is a global powerhouse in digital services and information management. As a multinational technology company with billions in annual revenue and a workforce of over 90,000 employees, it plays a pivotal role in driving digital transformation across industries. Known for its cutting-edge imaging solutions and commitment to innovation, the organization continues to redefine how businesses leverage technology worldwide.



Challenge

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Hindered by Legacy Data Systems

With an extensive global network of customers, vendors, and partners, the client faced several challenges regarding scalability, time-to-market for products, and the growing complexity of their data warehouse (DW) ecosystem. Over the years, rapidly expanding operations resulted in a suboptimal Data Warehouse ecosystem, hindering their ability to respond promptly to market demands. The client also struggled with excessive customization, which limited the scalability required for enhancing and expanding their ecosystem. All of this necessitated a more streamlined and agile solution to manage the complexities of their vast business network.

Challenges Leading to AWS Cloud Adoption

Without a cloud solution, the client encountered several obstacles that impacted performance and decision-making:

- Sluggish reporting performance: The highly complex DW structure contributed to a lagging reporting system, impacting the efficiency and responsiveness of the analytics framework.
- Impaired time-to-market for new products: Data fragmentation and siloed storage hindered the swift generation of actionable insights, creating bottlenecks in the product development and launch process.

- Inaccurate troubleshooting: The complexity of the implemented logic within Oracle scripts complicated issue identification and resolution, impacting the overall efficiency of problem-solving within the system.
- Fragmented data stitching difficulties: The existing on-premises DW and reporting systems posed challenges in effectively stitching together disparate data parts, limiting the client's capacity for holistic data analysis and strategic decision-making.



Solution

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Legacy Data Warehouse, Modernized Fast with AWS Redshift

Hexaware led a strategic modernization of the client's legacy data warehouse, with a successful AWS Redshift migration as the foundation. The goal: to unlock real-time data insights, support AI/ML capabilities, and align the infrastructure with modern, cloud-native business needs.

Key Solution Components

1. Cloud Migration and Data Architecture Modernization

- **AWS Cloud Implementation:** Designed a flexible dimensional model to stage data marts, enabling adaptability for future business requirements.
- **RAPID Data Warehouse & Lakehouse:** Deployed Hexaware's RAPID framework to centralize data management, eliminate silos, and improve accessibility and operational agility.
- **AWS S3 for Oracle EPM:** Oracle EPM's data storage was automated using AWS S3, enhancing security and removing manual interventions.

2. Snowflake-Driven Enhancements

- **Pipeline Modernization:** Migrated PL/SQL-based data pipelines and business logic to HVR and Snowflake Connectors, enabling real-time insights.

- **Advanced Data Handling:** Used Snowflake Connectors with IICS Lambda functions to improve replication and data orchestration.
- **Custom Python Connectors:** Built tailored Python connectors for direct application data ingestion into Snowflake, supporting real-time analytics.
- **Optimized Reporting:** Repointed OBIEE and Qlik reports to Snowflake, and enhanced visualization via Power BI, streamlining both IT and business reporting.



Benefits

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Unified Data, Enhanced Efficiency

Optimized data processes with AWS Redshift accelerated development, reduced costs, and enhanced insights, helping improve operational efficiency. Here's how each stage of the solution offered unique benefits:

- **Multi-cloud strategy:** Diverse cloud platforms helped enhance flexibility.
- **Simplified data ecosystem:** Streamlined data landscapes in the cloud reduced complexity, improved insights.
- **Consolidated product data:** Siloed product data was unified on a single platform to speed time-to-market.
- **Faster development time:** Streamlined processes led to a 40% reduction in development time.
- **30% TCO reduction:** AWS Cloud migration led to a 30% reduction in Total Cost of Ownership (TCO).
- **Enhanced insights:** Real-time reporting and faster time-to-market unlocked actionable insights.
- **Simplified database:** Schema simplification ensured superior reporting system performance.
- **Lower OPEX on cloud:** Cloud operations resulted in lower operational expenses and improved ROI.



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Strategic AWS Cloud Migration Success with Hexaware

Hexaware’s strategic migration to AWS cloud for the client enabled a transformative shift, unlocking valuable data insights, establishing real-time reporting capabilities, and significantly accelerating time-to-market. This move fostered innovation and provided a competitive advantage to the client in a dynamic business landscape.



Ready to accelerate your transformation?

Contact us at marketing@hexaware.com to discuss how we can help you achieve similar results.

About Hexaware

Hexaware is a global technology and business process services company. Every day, Hexawarians wake up with a singular purpose: to create smiles through great people and technology. With this purpose gaining momentum, we are well on our way to realizing our vision of being the most loved digital transformation partner in the world. We also seek to protect the planet and build a better tomorrow for our customers, employees, partners, investors, and the communities in which we operate.

With offices across the world, we empower enterprises to realize digital transformation at scale and speed by partnering with them to build, transform, run, and optimize their technology and business processes.

Learn more about Hexaware at <https://www.hexaware.com>.

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