



HEXAWARE

How Hexaware's Data Migration Solution Helped a Leading US-based Medicaid MCO Achieve Cost Savings and Efficiency

Transforming Healthcare Payer Data Management.

Case study

Client

| Client

Challenge

Solution

Benefits

Summary

Our client is one of the largest Medicaid managed care organizations (MCOs) in the USA and a national leader in providing healthcare solutions for people who are at a low-income level and/or chronically ill.

The client offers Medicaid/Medicare/CHIP plans, serving approximately **4.5 million members in 13 states** and the District of Columbia.

Challenge

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In the world of healthcare, access to accurate and timely data is paramount, especially for organizations that serve the most vulnerable populations. Our client found itself facing a critical challenge with their existing data infrastructure.

The existing Cloudera Hadoop (CDH) Data Lake, which had been a reliable workhorse for years, was approaching the renewal of its licenses. This presented an opportunity for our client to assess their data infrastructure’s efficiency and explore new possibilities. While the Data Lake was substantial at just under 50TB, there were no significant performance or operational issues. Audit and compliance were in order, but several key aspects were missing:

Real-time Data

The need for near real-time data availability for timely business decisions.

Security

The absence of role-based security access made data vulnerable.

Data Sensitivity

PHI, PII, and PCI data were not adequately masked or encrypted, posing a risk.



The client’s member data is not only extensive but also demands a **highly efficient data management system.**

Solution

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Hexaware delivered a comprehensive solution by architecting a robust framework on Azure Cloud. This involved migrating Cloudera Hadoop Data Lake workspaces to Azure Cloud Databricks Delta Lake. Notably, a reusable framework was meticulously built to streamline the workspace migration, with a focus on achieving tangible outcomes:

Modernization of Legacy Systems

The data platform was transformed from Cloudera to a Cloud-native architecture, enhancing scalability and performance.

Cost Efficiency

A paramount goal was the reduction of Total Cost of Ownership (TCO) to optimize resource utilization and minimize expenses.

Real-time Insights

The accessibility of near real-time data supported agile and informed business decision-making.

Robust Security and Elasticity

A resilient, secured, elastic, and optimized data platform was established to safeguard sensitive information and ensure data integrity.

Efficient Data Migration

All data and processes were seamlessly migrated to Cloud Data Lake, with a central focus on enhancing speed and efficiency.

Security Governance

A robust security governance mechanism was implemented to facilitate secure and compliant data consumption by the business.

Role-based Access Control (RBAC)

Role-based access control policies were enforced to fortify data security and restrict unauthorized access.

Data Privacy

Sensitive data, including PHI, PII, and PCI information, was effectively masked to ensure regulatory compliance and data protection.

AI and ML Empowerment

Azure migration paved the way for harnessing advanced AI/ML capabilities using both R and Python, facilitating data-driven insights and innovation

Migrating the Cloudera Hadoop Data Lake to Azure Cloud Databricks Delta Lake was a strategic move that paid rich dividends.

Benefits

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This migration brought about a multitude of benefits, which are outlined below:

Reduced Total Cost of Ownership (TCO)

By optimizing resource utilization and minimizing expenses, the migration led to a significant reduction in TCO, allowing the client to allocate resources more efficiently.

Shorter Implementation Time

The migration process was executed with minimal disruption to ongoing business operations, ensuring a swift and efficient transition to the new data platform.

Reusable Framework

A meticulously crafted framework for workspace migration provides a valuable resource for future endeavors, reducing the effort and time required for similar transitions.

Workspace Accessibility

The new system ensures that workspace areas are available for all users, promoting collaboration and data access across the organization.

Simplified Integration

By streamlining data integration, the migration reduced the cost and complexity associated with integrating disparate systems, leading to a more unified and efficient data environment.

Real-time Data Integration

The flexible architecture allows for real-time data integration, enabling timely decision-making and agile responses to changing healthcare needs and trends.

The migration resulted in the establishment of **a state-of-the-art data platform**, ensuring the client's data infrastructure is equipped to meet evolving needs and regulatory requirements.

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In the world of healthcare, every second counts, and every dollar saved has the potential to improve countless lives. When a leading Medicaid managed care organization in the USA faced challenges in its existing data infrastructure, including the need for real-time data, security enhancements, and data sensitivity concerns, Hexaware stepped in to architect a robust framework on Azure Cloud, migrating their Cloudera Hadoop Data Lake to Azure Cloud Databricks Delta Lake. This strategic move resulted in a range of significant benefits, including reduced Total Cost of Ownership (TCO), streamlined implementation, and a shorter transition period.



About Hexaware

Hexaware is a global technology and business process services company. Our 27,000 Hexawarians wake up every day 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 40+ offices in 19 countries, we empower enterprises worldwide 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 www.hexaware.com.

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