



CASE STUDY

Onix spearheads AWS optimization platform for health data innovator CapsicoHealth, Inc.



Executive Summary

With deep expertise in care management, risk adjustment, prediction for bundle management, clinical decision tools, payment systems and big data platforms, healthcare technology solutions provider CapsicoHealth, Inc. features analytics products CapsData, CapsRisk and CapsVision. These solutions enable clinicians to aggregate diverse patient data from medical records, claims, surveys and medical devices, allowing customers to manage and analyze patient care for insights regarding cost, risk, health status and outcomes. Their platform capabilities include ML and AI models, data lake management, de-identification — and reporting.

Customer Challenge

CapsicoHealth was running their proprietary data applications in Google Cloud Platform. As they began developing for the AWS environment, they realized that they lacked the architecture expertise to incorporate best practices for delivery on the AWS platform. Because their analytics products were designed to be deployed easily in their customers' preferred cloud environments, they wanted specific AWS guidance and architectural diagrams. They also sought expertise to help them incorporate Amazon Redshift and QuickSight into their solution.

Partner Solution

Onix leveraged existing CapsicoHealth proprietary and cloud-native solutions to establish a similar architecture on AWS, providing expert oversight for a secure, scalable and easily maintainable AWS architecture. After discovery, platform reviews and a cost optimization analysis with QuickSight, Onix delivered a well-architected design. An Amazon S3 Data Lake was used to consolidate data in order to provide accessibility for the CapsicoHealth applications. The required ETL included AWS Glue to catalog and integrate data with AWS analytics and ML services — Athena, RDS, SageMaker and QuickSight — along with Elastic Beanstalk to host the application. For future state goals, Onix provided the organization with the detailed architecture to expand functionality, integrating a data warehouse component utilizing Redshift and moving from Power BI to QuickSight.

At a glance:

About the Customer

CapsicoHealth provides a leading, world-class risk technology platform to help providers manage episode-based payments, design bundles for value-based care — and forecast revenue. Aiming to provide proven AI-driven real-time analytics for providers and payers to simplify care models, the company believes that the last mile of episodic healthcare delivery can be vastly improved by helping providers drive optimal patient care — within cost boundaries.





At CapsicoHealth, Inc., we were looking for a consultant skilled in AWS architecture and internals to help us configure and set up an AWS environment and further simplify deployment of care management tools by adding AI-driven real-time analytics. Onix not only helped us achieve these goals but also helped with hard savings from their Quicksight optimization work. We really appreciate all the good work Onix put together.

Ramesh Jakka, CEO, CapsicoHealth, Inc.



Why AWS?

With more customers leveraging an AWS platform, CapsicoHealth needed to respond proactively with their proprietary data applications suite and products to make them readily available to their customers. The organization wanted to leverage AWS capabilities both to make their

solutions available to customers — and to improve their products using AWS purpose-built healthcare solutions, analytics and ML services such as Redshift, QuickSight and SageMaker.



Amazon QuickSight



Amazon Athena



Amazon RDS



Amazon SageMaker



AWS Elastic Beanstalk



Amazon S3



AWS Glue

Why the Customer Chose Onix

Based upon a prior mutual business relationship, CapsicoHealth trusted Onix. They knew the company had deep AWS healthcare industry data knowledge and experience, could be available quickly to begin work — and would provide in-depth planning and responsive consulting to support their current and future state goals. Onix was positioned to leverage existing CapsicoHealth proprietary and cloud-native solutions to establish a similar architecture in AWS, providing expert oversight for a secure, scalable and easily maintainable AWS environment.

Impact and Results

With the new architecture in place, CapsicoHealth could expand their business to AWS customers. The QuickSight optimization session resulted in an annual savings of \$3,000. Onix provided a detailed architecture to expand functionality, integrating a data warehouse component using Redshift and QuickSight. The company plans to continue designing additional data applications and dashboards in response to their growing healthcare customer base — and to make their products available to customers in multi-cloud environments. As the needs of their customers change, CapsicoHealth wants to be ready to pivot, add new feature sets and optimize where needed.

Onix is a world-class AWS Advanced Tier Services Partner that strives to help customers increase organizational efficiency through cloud-computing solutions. Our expertise covers Data & Analytics, Migration & Modernization, Security & Governance and Cloud Managed Services with particular focus on modernizing workloads. With proven success across hundreds of customers, we build agile yet scalable solutions by partnering with AWS to accelerate customer experience and back our strategic planning and deployment expertise with incomparable service, training and support.

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