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INNOVATIVE HEALTHCARE ANALYTICS COMPANY POWERS BUSINESS EXPANSION AND NEW SERVICES THROUGH CLOUD

Geneia gains enhanced development capabilities, improved existing and new services, expanded client base with greater security and compliance controls leveraging Cognizant-led AWS cloud transformation.

The Challenge

Geneia offers a predictive analytics platform for population health and care management and was ready to expand its solution to a wider customer base. However, its existing on-premises infrastructure did not have the flexibility and scalability to support its business expansion strategy or the ability to onboard new customers within an acceptable timeframe.

In addition to improving customer service, Geneia needed infrastructure resources that could scale out with fluctuating client processing demands. Supporting faster development to deliver new features and services to its customers was critical.

Any solution had to meet rigorous industry security and privacy regulations or personal health information (PHI). Simultaneously, because of industry economic pressures, Geneia had to minimize its capital expenditure and ongoing operating costs.

AT A GLANCE

Geneia, an innovative healthcare analytics company wanted to expand its offerings and client base but its on-premises infrastructure had challenges with scalability, cost efficiency, compliance and security and infrastructure management. Cognizant developed a 100% cloud infrastructure for the company that cost efficiently delivers increased security and compliance, scalability and flexibility to swiftly onboard customers and meet their evolving processing needs and rapid development capability in the cloud.

The Solution

Cognizant designed and implemented a cloud migration strategy for Geneia using AWS, third party products (SAS, Mirth, Hadoop, Tableau and others) best-in-class security solutions (Splunk, TrendMicro, QualysGuard and others), and Cognizant's framework (Cloud STEPS), tools (Cloud360) and accelerators.

The solution provides on-demand scalability, enabling new customer onboarding within a much shorter timeframe. The cloud infrastructure provides extensive privacy, security and business continuity functions to safeguard PHI data and provide higher user and customer satisfaction. It enables cloud-based development on virtual workstations, speeding the efforts of Geneia's developers to add new features and functions to its core analytics services.

The Approach

Cognizant developed IT and cloud migration strategies for Geneia to ensure IT would be closely aligned with the organization's overall business objectives. The strategic work included developing an IT operating model, assessment of cloud platforms and complementary third party best-in-class products and capabilities. Cognizant used its Cloud Step Framework methodology to identify and evaluate key criteria including the capabilities of different platforms and products to meet extensive healthcare regulatory and compliance requirements as well as Geneia's functional needs.

After identifying AWS as the target cloud platform, Cognizant designed and implemented a cloud infrastructure that encompasses 100% of Geneia's IT landscape. HIPAA-compliant security and privacy measures were implemented in infrastructure, network, data and application layers. Cognizant also implemented an operating model to proactively monitor and respond to security events. A multi-region and multi-zone backup and disaster recovery solution has been factored into the solution to address the Recovery Time Objective and Recovery Point Objective requirements.

Key Benefit of Cognizant-led AWS Cloud Transformation

- Scalable, reliable, secure, HIPAA-compliant and highly available environment.

- Expedited onboarding of customers.

- Faster to market with new features and products via rapid & agile cloud-based development.

- Reduced TCO – Minimized capital expenditure and ongoing operating costs.

- Capture bigger market share in healthcare analytics.

The infrastructure was made scalable and highly available by using AWS services like elastic load balancing and auto-scaling. The flexibility enables Geneia to add new customers within an acceptable timeframe and provides the constantly ready state environment to meet customers' variable data processing demands. These features contribute to enhanced quality of service and greater user satisfaction.

Powering Faster Development

Further, the cloud infrastructure powers virtual development environments. Automated build, deployment (Jenkins, Chef, JIRA and others), provisioning (using Cloudformation and others) and virtual workstations (AWS Workspaces) in the cloud enable Geneia's developers and data scientists to quickly provision resources and work from any location. This capability shortens Geneia's time-to-market for new applications and analytics features, improving its position in a highly competitive industry.

Taking its entire infrastructure to the cloud has saved Geneia considerable upfront and ongoing operating costs. Cognizant tapped its economies of scale to cost effectively integrate leading third party security offerings into Geneia's infrastructure. The on-demand scalability of the infrastructure ensures it is aligned with Geneia's processing needs on a near real-time basis. Geneia has the availability it requires to develop new features to support members as well as the assurance its security and compliance requirements are met.

ABOUT COGNIZANT

Cognizant (NASDAQ-100: CTSH) is one of the world's leading professional services companies, transforming clients' business, operating and technology models for the digital era. Our unique industry-based, consultative approach helps clients envision, build and run more innovative and efficient businesses. Headquartered in the U.S., Cognizant is ranked 205 on the Fortune 500 and is consistently listed among the most admired companies in the world. Learn how Cognizant helps clients lead with digital at www.cognizant.com or follow us @Cognizant.

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