Client Success Story

A major global manufacturer

Leading global manufacturer automates compliance and security on AWS Cloud

By combining self-service, compliance automation and security automation on AWS, a leading global manufacturer achieves savings and high availability

Customer Challenge

This global pharmaceutical and device manufacturer lacked self-service capabilities for security and compliance automation across its business units. That, along with manual governance processes and a complex SDLC framework negatively impacted its operations and costs.

AWS + Cognizant Solution

Cognizant leveraged its partnership with Amazon Web Services (AWS) to develop an automated self-service cloud orchestration and compliance management system, supported by automated backup and retention, Active Directory integrated identity management, database management and external SaaS integration with key third-party tools.

This system scales across the global enterprise, including North America, the European Union and Asia Pacific regions. With more than 750 applications and 25,000 instances the system provides application owners flexibility in orchestration and compliance via a self-service option that enables the secure provisioning of infrastructure and development resources.

Additionally, we developed and deployed compliance enforcement bots to assist with proactive security and conformity activities, along with automated network segmentation and playbooks to streamline compliance procedures. These enforcement bots ensure the infrastructure, operating system and database layer adhere to all security compliance requirements.

Each bot runs securely at a regular interval in almost 30 servers. The cloud orchestration and compliance management system periodically enforces preventative and detective controls in the environment.

Cognizant implemented AWS CloudTrail to support governance, compliance, operational and risk auditing capabilities for the AWS services. It monitors activities within the management console and CLI, and across SDKs and APIs.

Architectural Attributes

Generally speaking, the solution uses AWS services throughout, including Amazon EC2, S3, VPC, Direct Connect, RDS, Redshift, DynamoDB, CloudFormation, EMR, SES, SNS and Route 53.

Outcomes

Deploying Cognizant's security and automation solution helped the medical device manufacturer reduce manual governance efforts by 90% and achieve automatic network segmentation for 100% of its accounts. Automated altering mechanisms ensure high availability of business processes while the client meets its critical timeframes of one-hour resolution and 10-hour SLA compliance. These results indicate that the manufacturer achieves additional cost savings as well, due to overall performance improvements, SLA and QoS improvements, and the ability to implement cost-saving BYOD equipment strategies.

About the Partner

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. We engineer modern businesses to improve everyday life. Our unique industry-based, consultative approach helps clients transform technology, reimagine processes and transform experiences, ensuring businesses remain agile, relevant and ready to run more innovative and efficient enterprises.

With AWS as our partner, we focus on the outcomes that matter most to businesses and underpin our solutions with deep industry experience and market-leading IP. Cognizant's more than 6,000 AWS-certified professionals, dedicated AWS-certified consultants in 43 countries, hundreds of customer launches and successes, and more than 70 transformational blueprints help drive innovation beyond cloud migration.

As a premier consulting partner, Cognizant holds numerous AWS competencies, including AWS Mainframe Migration, AWS SAP, AWS Migration, AWS Financial Services, AWS Healthcare and AWS Life Sciences. Partner programs include AWS Well Architected, AWS Managed Service Provider, AWS Marketplace Seller, AWS Solution Provider Program and AWS Public Sector Solution Provider.

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