



[Customer success story](#)

Large scale migration using containerization

About the customer

The customer is an American multinational healthcare company that specializes in the production of medical devices, pharmaceuticals and biotechnology products. It is committed to advancing healthcare through innovation and collaboration. The company invests heavily in research and development to work closely with healthcare providers to understand their needs and develop products that meet them. With a strong commitment to sustainability, it has set ambitious goals to reduce its environmental impact and improve the health of communities around the world.

Customer challenge

A requirement for an American multinational healthcare company was to migrate their applications to AWS Data Centers. Their objective was to consolidate their distributed data center (DC) footprint into the cloud, which offered benefits in cost reduction, improved scalability and enhanced agility. The customer's goal was to move their extensive infrastructure landscape consisting of seven data centers, 3,500 servers and over 360 applications to the cloud. Maintaining an inefficient and complex infrastructure can lead to significant costs for a business. Therefore, they chose Cognizant, a trusted provider with expertise in DevOps and automation, to meet their project requirements and timelines, and to ensure a successful migration.

AWS + Cognizant solution description

Drawing on our extensive experience, Cognizant proposed a fully automated DevOps pipeline-based migration solution that not only facilitated the client's application migration but also ensured long-term operational cost reduction. By building a DevOps migration platform, we enabled the customer to seamlessly transition their applications to the cloud. In addition, Cognizant integrated SecOps into the pipeline, prioritizing security throughout the application delivery process while optimizing application delivery. Through the implementation of Infrastructure as Code (IAC) and automated application installation, we achieved reduced deployment time and minimized errors, ensuring consistency and reliability. Cognizant adapted loosely coupled architecture to promote the development of highly maintainable and scalable systems. In a loosely coupled architecture, components or modules are designed to operate independently.

Leveraging services such as AWS ECS/EKS, Lambda, and others, we implemented a microservices architecture on the cloud. In addition, we built a Container Deployment Platform (CDP) to help business users deploy applications through automated CI/CD pipelines.

Architectural attributes

Legacy applications undergo cloud suitability analysis. Some applications are migrated by lifting and shifting them to run on AWS EC2 instances, while the majority are containerized and moved to ECS (Elastic Container Service) and EKS (Elastic Kubernetes Service) for container orchestration using microservices architectures. In the following phases, even the applications currently running on EC2 instances are transitioned to ECS/EKS Fargate containers (serverless architecture).

Outcomes/results

By partnering with AWS, Cognizant helped the customer streamline the process of migrating applications to the cloud efficiently. This has enabled them to achieve their business goals more rapidly and effectively. Cognizant played a pivotal role in consolidating these achievements, resulting in:

- 50 % reduction in data center spend
- 40 % increase in operation efficiency
- Zero downtime for the release of new applications
- A comprehensive database maintenance for builds of information in compliance with GXP standards and for audit purposes
- Simple and easy application onboarding process to the framework

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, re-imagine 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 brings more than 13,000 AWS certified professionals, dedicated AWS certified consultants in 43 countries, hundreds of customer launches and successes, and more than 70 transformational blueprints to 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.

Why Cognizant?

You need a partner with deep understanding of the application landscape and how it has evolved over the years. One who is at the leading edge of automated deployment models with the experience of people-led change. One with the wisdom to understand how you got to where you are today, and the vision to take you to the future state.

Cognizant has the broadest knowledge and experience with applications across a wide range of technologies, platforms, and languages and has been helping IT and business leaders drive results at speed and scale for over 25 years. We have been recognized as a leader in Application Transformation, Application Modernization, Next-gen ADM and Automation by reputed research and advisory firms. Our vibrant partner ecosystem with leading technology vendors helps drive standards, innovation and value in the modernization value chain.

Our industry leading IPs and accelerators such as UpShift, the application assessment and migration platform, ZDLC, the automated capture tool, COSMOS, microservices design and delivery platform, and many such are designed to help clients reduce modernization efforts and costs dramatically.

Wherever you are in your application modernization journey, and whatever your end goals are, Cognizant can help.

To learn more, contact awsome@cognizant.com



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 185 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.

World Headquarters

300 Frank W. Burr Blvd.
Suite 36, 6th Floor
Teterboro, NJ 07666 USA
Phone: +1 201 801 0233
Fax: +1 201 801 0243
Toll Free: +1 888 937 3277

European Headquarters

280 Bishopsgate
London
EC2M 4RB
England
Tel: +44 (0) 020 7297 7600

India Operations Headquarters

5/535, Okkiam Thoraiyakkam,
Old Mahabalipuram Road,
Chennai 600 096
Tel: 1800-208-6999
Fax: +91 (0) 44 4209 6060

APAC Headquarters

1 Fusionopolis Link, Level 5
NEXUS@One-North, North
Tower
Singapore 138542
Tel: +65 6812 4000