



Customer success stories

Modernizing legacy applications for a leading manufacturing customer

Transforming monolithic systems to cloud-native
architecture

Customer challenge

The manufacturing customer was facing significant challenges with its legacy monolithic applications. These outdated systems were not only difficult to maintain but also hindered the company's ability to scale and innovate rapidly. The limitations included:

- High dependency on manual intervention for maintenance and operations
- Restricted user privileges, limiting the efficiency and productivity of users
- Poor user experience due to outdated interface and performance issues

AWS + Cognizant solution description

Cognizant took several decisive actions to modernize their applications and streamline their operations. By rearchitecting their applications from a monolithic architecture to a cloud-native microservices architecture, they were able to enhance scalability and efficiency. The use of Docker containers ensured consistent deployment across various environments, contributing to faster development cycles and improved application portability. Additionally, deploying their dockerized solutions on AWS EKS provided them with enhanced security, scalability and automatic updates. To further optimize their processes, Cognizant automated the testing and deployment of applications using DevOps pipelines. The company also implemented AWS RDS for storing daily backups, ensuring data reliability and security. To maintain server reliability, they used EKS to monitor and automatically restart any crashed pods, with auto-scaling configurations to manage workload changes. AWS Elasticsearch was utilized to improve search performance, and ElastiCache was employed to enhance application speed, reflecting Cognizant's commitment to leveraging cutting-edge technologies for optimal performance and reliability.



Outcomes/results

The transformation from monolithic to cloud-native architecture brought significant benefits to the manufacturing customer:

- **No manual intervention:** Automation of maintenance tasks reduced the need for manual operations, enhancing efficiency
- **Restricted user privileges:** Enhanced security measures ensured that users had the appropriate level of access, reducing risks
- **Better user experience:** Modernized applications provided a more intuitive and responsive interface, improving overall user satisfaction
- **Easier ERP integration:** The use of microservices architecture simplified the integration with multiple ERP systems, streamlining operations
- **Increased productivity:** The cloud-native architecture improved scalability and security, enabling the company to achieve higher productivity levels

About the partner

Cognizant (Nasdaq-100: CTSI) 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 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 hold 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.



Cognizant (Nasdaq-100: CTSI) engineers modern businesses. We help our clients modernize technology, reimagine processes and transform experiences so they can stay ahead in our fast-changing world. Together, we're improving everyday life. See how at www.cognizant.com or [@Cognizant](https://twitter.com/Cognizant).

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