

Customer success story

# AWS-powered learning platform fuels global expansion

Transforming its LMS and infrastructure enabled an educational publisher to ready its digital learning experiences for worldwide expansion.

# **Customer challenge**

As a leading educational publisher geared up for rapid expansion into new geographies, its learning management system (LMS) fell short. Unable to scale and highly unreliable, the legacy platform slowed the company's efforts to innovate and made it difficult to get new products to market quickly and cost-effectively. High application transaction response times left customers dissatisfied. Because the legacy application's multiple content formats had evolved over time, components were not reusable.

With offices in 40 countries, the UK-based publisher sought a modern, cloud-based LMS to support its global business objectives. It needed the core learning platform to deliver business functionality, security, data protection, and global governance.

# **AWS + Cognizant solution description**

Cognizant evaluated the legacy LMS for business workflow and assessed it against competitors' benchmarks, and then defined and implemented a secure, highly available LMS hosted on AWS infrastructure.

The LMS uses several services, including AWS Lambda, Amazon CloudWatch, Amazon Simple Storage Service (S3), Amazon Aurora, and Amazon Route 53. The solution is deployed into EC2 instances spanning multiple availability zones. We also deployed the Amazon CloudFront-based content delivery solution for the client's propriety content.

Rearchitecting the LMS in the cloud allowed us to leverage the multisite feature, which allows the publisher to localize the platform content for different regions and makes it much easier to manage the overall customer experience. For greater scalability, we optimized complex, time-consuming transactions and components.

Integration is a critical capability of the new LMS, allowing it to connect with external applications, including standards and compliance guidelines. We integrated the LMS with applications such as a new identity and access management platform and KonaKart eCommerce, which provides global access for B2B and B2C sales. Integration was done using LTI, SAML, and APIs exposed for data communication with the external systems.

# **Architectural attributes**

# Teck stack

Drupal 7, PHP, Java, JavaScript, NodeJS, HTML & jQuery Apache, SOAP, REST, Gigya & MySQL AWS Virtual Private Cloud (VPC), EC2, Amazon Relational Database Service (RDS), AWS Elastic Load Balancer, Amazon S3, Amazon SES, Amazon SNS, AWS Lambda, Amazon Route 53, Amazon Elastic File System (EFS), AWS Identity and Access Management (IAM), AWS Trusted Advisor, Amazon CloudTrail, Amazon CloudWatch, AWS CloudFormation, etc.



# Outcomes/results

# Scale and growth for a global business

The AWS-based LMS provides a modern, streamlined experience for the publisher and its students, teachers, and administrators. The publisher is now able to grow and scale its business as it manages content integrations from multiple geographies. The LMS's integration with a content delivery network (CDN) improved the content experience and enabled faster time to market. In response to application traffic, the LMS provides greater fault tolerance and seamless load balancing dramatically reducing platform outages and downtime.

- 1000+ unique titles delivered to six million global users.
- 8 million users supported thanks to the elasticity of the AWS cloud.
- Platform scaled to support 9,500 user concurrencies over 15 minutes, down from 50.
- · Improved client satisfaction

# 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.



Cognizant (Nasdaq-100: CTSH) 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.

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