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Reinventing infrastructure for one of the largest e-learning companies

A entire e-learning platform hosted in
AWS for high availability and resilience

Customer Challenge

A top e-learning company needed to migrate its whole platform from on-premise to the cloud to get the best performance, scalability, high availability, and resilience. They wanted their applications moved to AWS for cost reduction, performance improvement, and security and compliance automation. During the pandemic, their customers increased exponentially, so they needed to implement this migration gradually to avoid any negative impact on the end users.

Solution

The company used AWS CloudFormation for Infrastructure as Code for their platform.

The majority of their applications were Java applications running on tomcat servers. We migrated these applications to EC2 with Autoscaling groups implementing a blue/green deployment approach managed by CodeDeploy. Legacy applications that were deprecated were replaced with microservices applications using Lambda and Api-gateway. We also migrated front-end applications (angular and NodeJS) to S3 buckets with AWS CloudFront. The Oracle databases hosted on on-premise servers were migrated to AWS RDS. Besides, their DNS was migrated to Route53. Currently, we are working on migrating applications hosted in EC2 to EKS clusters to improve the scalability of those applications. We used other AWS services for this migration: SQS, SNS, AWS WAF, Elasticsearch, Redis, and CloudWatch.

Results and Benefits

With the new infrastructure hosted completely in AWS, the company realized a cost reduction because its platform was no longer over-exceeded, and they only pay for what they use. The new platform has faster and safer deployments to production, helping development teams reduce the time to develop new features of their applications. High scalability and stability help the company provide its platform to more schools easily.

About Globant

We are a digitally native company that helps organizations reinvent themselves and unleash their potential. We are the place where innovation, design and engineering meet scale.

- We have more than 26,500 employees and we are present in more than 20 countries working for companies like Google, Electronic Arts and Santander, among others.
- We were named a Worldwide Leader in CX Improvement Services by IDC MarketScape report.
- We were also featured as a business case study at Harvard, MIT, and Stanford.
- We are a member of The Green Software Foundation (GSF) and the Cybersecurity Tech Accord.

For more information, visit www.globant.com

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