

The background of the slide is a photograph of a person's hands working at a desk. One hand is raised, gesturing, while the other is near a laptop. The laptop screen displays a dashboard with various charts and data. A smartphone is lying on a notebook in the foreground. The overall scene is dimly lit, with a green gradient overlay on the left side of the image.

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# Transitioning an e-learning company from on-premise to the cloud

The 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 cloud to get the best performance, scalability, high availability and resilience. They wanted their applications re-hosted to AWS for cost reduction, improvement in performance and automated security and compliance. During the pandemic their customers increased exponentially, for that reason, they needed to implement this migration gradually to avoid any impact or downtime for the end customers.

## Solution

From Globant's assessment and recommendation, the company decided to use AWS CloudFormation for Infrastructure as Code for their platform.

The majority of their existing applications were Java applications running on tomcat servers, we decided to migrate 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 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. Applications hosted in EC2 will be migrated to EKS clusters to improve the scalability of those applications. Other AWS services that we used for this migration were 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 it uses. Having faster and safer deployments to production, helping development teams to reduce the time to develop new features of their applications. High scalability and stability, helping the company to provide its platform for 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 are more than 27,000 Globers present in 25 countries in 5 continents 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](https://www.globant.com)

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