

theCompany

Our client is a leader in the eLearning space. Offering free introductions to various topics the e-learning platform provides education on award-winning SaaS solutions for the architecture, engineering, construction (AEC), industrial, facilities management, public safety, IT and education industries. They deliver continuing education (CE), training, technology, and performance management solutions using the latest innovations in learning and technology to create safer, more capable, more compliant organizations.

theChallenge

The client recognized their process for code deployments was failure-prone and complicated. They were also experiencing significant outages in their AWS environments when specific domain controllers were terminated improperly. Additionally, deployments were taking up to 4+ hours due to database script generation and execution timings. These challenges caused support engineers to spend excessive time maintaining SSL/TLS certificates on web VMs.

theSolution

Clear Measure recommended utilizing Octopus Deploy for code deployments to their existing server infrastructure. With AWS CLI for infrastructure automation, Clear Measure suggested that this was a way to get a consistent web/app server build configuration into change control for improving web server management and to ease server replacement. Clear Measure also implemented RedGate SQL Change Automation for database migrations.

theBenefit

Ultimately, the stability and reliability of their existing client's AWS environments were hugely enhanced, putting our client on the path to a fully automated process. The modifications made to the digilms.com domain and AWS networking eliminated issues with system reliability and availability. The automation of server provisioning and configuration decreased build times by 85%, while significantly improving the consistency of the infrastructure supporting their application. Listed below are several more benefits obtained from this engagement.

1. A more stable and refined AWS EC2 environment and Windows Server domain for the Journey application.
2. Migrated Journey domain SSL termination to AWS Certificate Manager.
3. Migrated from a simplistic Network Load Balancer solution to a more appropriate Application Load Balancer.
4. Simplified the Windows IIS configuration required for the Journey application. Implemented an automated server build and configuration initiative.