



ENHANCING SCALABILITY FOR AN AUSTRALIAN SCHOOL COMMUNICATIONS PROVIDER WITH CLOUD

DATAMATICS

One of the leading communications partners for schools across Australia, helping thousands of schools enhance communication and streamline administrative processes. With a commitment to fostering strong school communities, it specializes in innovative tools that improve parent engagement and ensure seamless information flow between educators and families. Known for its dedication to efficiency and connectivity assisting schools to connect with and keep their community informed.

The Challenge: Optimizing Cloud Infrastructure

As a trusted communications partner for thousands of schools, the client relied on a sophisticated technology stack to power its engagement platform. However, as its user base grew, the existing infrastructure became increasingly difficult to manage. The reliance on Redis running on virtual machines and Kubernetes on Google Cloud Platform (GCP) introduced operational inefficiencies, leading to longer development cycles and rising costs.

For the Chief Information Officer (CIO), these challenges posed significant hurdles in maintaining system reliability and scalability. The complexity of the tech stack—comprising Redis, RDS, and Kubernetes—added layers of intricacy to application management. Scaling and maintaining these disparate technologies required significant time and resources, slowing down innovation and driving up operational expenses.

To continue delivering a seamless communication experience for schools and parents, the client recognized the need for a streamlined, cost-effective cloud migration strategy—one that would simplify its infrastructure, enhance scalability, and improve overall efficiency.

The Solution: Cloud Migration with Datamatics & AWS

Datamatics implemented a strategic cloud migration plan that optimized scalability, reduced costs, and enhanced system efficiency. Given the incompatibility of the authentication module with AWS, Datamatics took an innovative approach by isolating the authentication module and running it as a standalone service instead of a traditional web application.

To further enhance system reliability, Datamatics implemented Cloudflare in a phased approach to manage custom domains and optimize load handling. This methodical deployment ensured that the system could efficiently manage high traffic volumes while maintaining stability and performance.

Datamatics successfully simplified the company's cloud infrastructure, enabling a more agile, cost-effective, and scalable solution tailored to the client's growing needs.

Impacts: Optimized Performance & Cost Savings

42% reduction in traffic congestion

With better control over resources and processes

25% increase in efficiency

After migrating to AWS with reduced complexity

Lower costs

Due to the simplified cloud environment & scalability

Reduced dependences

On any kind of manual intervention on scalability

ABOUT **DATAMATICS**

Datamatics enables enterprises to go Deep in Digital to boost their productivity, customer experience, and competitive advantage. Datamatics' portfolio spans across three pillars of Digital Technologies, Digital Operations, and Digital Experiences. It has established products in Intelligent Document Processing, Robotic Process Automation, AI/ML models, Smart Workflows, Business Intelligence, and Automatic Fare Collection.

Datamatics caters to a diverse global clientele across Banking, Financial Services, Insurance, Healthcare, Manufacturing, International Organizations, and Media & Publishing. The Company has a presence across four continents with significant delivery centers in the USA, India, and the Philippines. To learn more about Datamatics, visit www.datamatics.com

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