Company/Client
Smart Media Sp. z o.o.

Industry
IT, software

Duration
July 2015 - now

Services
Project and implementation AWS cloud, consulting, server management

Project and implementation AWS cloud

Consulting

Server Management

Dziennikus.pl

Case Study

The project description

SmartMedia is a technology company that specializes in providing software for companies and public institutions. One of the applications developed by the company is **Dziennikus.pl**, an electronic school diary, supporting the work of the school and a comprehensive source of information for parents with information about lesson plans, attendance lists, tests and grades of their children.

App view

The project description

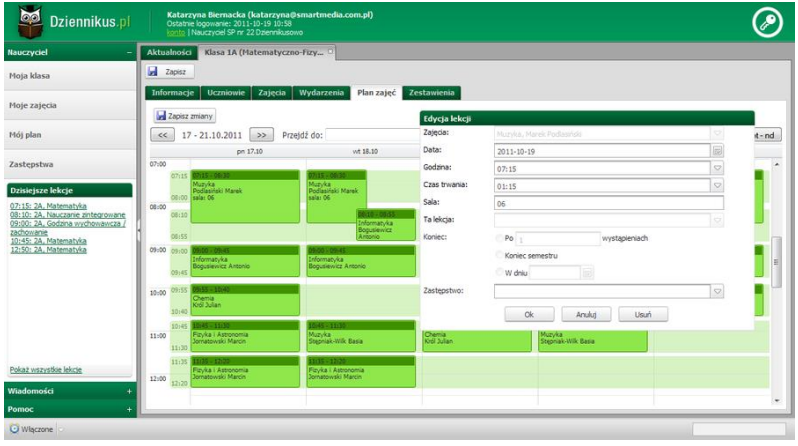
The scope of our works included **designing and implementing** a highly scalable **HA** infrastructure based on **Amazon Web Services** and **administrative support** to guarantee stable functioning of the application.

Amazon Web Services was the best choice for SmartMedia

Challenge

After an effective sales campaign conducted by Dziennikus, the number of users of the application began to **grow rapidly**. The growing needs meant that existing server solutions would no longer suffice. Therefore, the client sought an **efficient and scalable solution** that could support the rapid growth of users.

Our analysis has shown that the existing hosting solution Dziennikus was based on could have performance issues. As a result, usage of the application would be hindered and, in some cases, impossible.



Schedule in Dziennikus app

Implementation

After analysing the project in terms of dynamic growth in users and insufficient performance of the existing hosting solution, we proposed a migration of resources to the **Amazon Web Services** cloud. The main advantage of this solution is **scalability**, which fits perfectly with the needs of the customer.

We divided the implementation into four main stages:

Stage 1 – Preparation and implementation of Amazon infrastructure

We launched t2.medium and c4.large instances for webpage and database. We also configured Elastic Load Balancer, which distributes incoming application traffic across multiple Amazon EC2 instances. Then, we installed and configured dedicated security and monitoring tools.

Stage 2 – Data migration

The application performance was tested in Amazon Web Services environment. After configuring a new infrastructure, all Dziennikus data was migrated to the AWS cloud..

Stage 3 – Optimization and monitoring

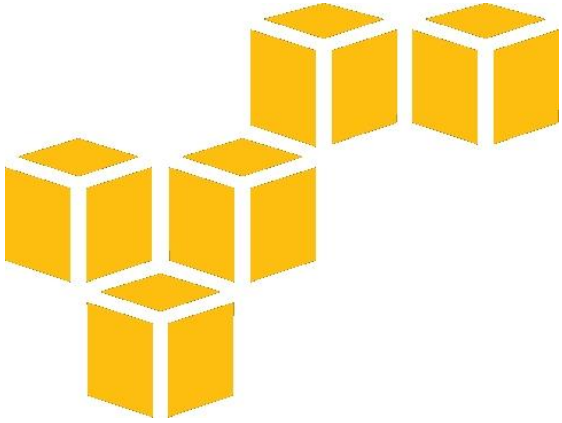
Watching over the reliability, scalability and the optimization of parameters of the database were our next task.

Stage 4 – Administrative support

All the time we are taking care about stable and efficient action of the Dziennikus application and maximize it safety.

Business benefits

The implementation of the Amazon Web Services cloud infrastructure made it possible to **increase the efficiency of the website** and to **eliminate the problems with the availability of resources** in case of traffic growth. This translates into stable and continuous operation of the application. For users of Dziennikus this means **greater comfort** and a **trouble-free use** of the application.



Testimonial

„Thanks to Hostersi's **commitment** and implementation of the new infrastructure, based on Amazon Web Services, Dziennikus application is much **more efficient** and **prepared for the traffic growth**".

Bartosz Sobolewski, SmartMedia Sp. z o.o.