

Migration and Optimization of a Travel Platform for DB Regio Bus



Deutsche Bahn AG has bundled its entire bus business in the DB Regio, Bus Division (DB Regio Bus). The bus companies, which were independent in the past, have been merged regionally and are market leaders in the German public transport market.

THE CHALLENGE

As a central service provider for mobility, Deutsche Bahn has taken over a bus platform that brings together bus passengers and bus companies. Since the platform was developed and operated by an external company, the application had to be migrated to the IT infrastructure of DB Regio Bus. The existing infrastructure was already developed in a standalone AWS account of the external company. The challenge was to migrate an existing, but outdated application into the complex IT infrastructure of DB Regio Bus.

- Requirement: Minimal disruption to operations and seamless migration of all data.
- Involvement of an external development team for further development and troubleshooting of the application.

THE SOLUTION

Standardization and Reusability

In this project, peripheral systems such as automated rollouts, monitoring and logging were designed for reusability and standardization. They form the stable framework for future migrations.

Security and Future Viability

The application to be migrated was adapted in accordance with current AWS requirements and DB Regio Bus guidelines and brought up to the latest security standards. To ensure a high speed of innovation, the project was carried out using agile methodology.

The Implementation

The first step of the migration involved rebuilding the infrastructure. The second step involved optimizing the application and infrastructure. A separate test system was built according to Best Practice. Superfluous components of the infrastructure were removed, and safety-critical parts were redesigned.

THE BENEFITS



Standardization of an external application:

Migration of a new application and simultaneous adaptation to compliance requirements. Peripheral systems are designed for reusability and standardization and provide the stable framework for successful migration of future projects and products.



Scalable, high available solution:

Achieved by using S3 for web hosting, AWS Elastic Beanstalk and AWS Relational Database Service. Additionally, the implementation of CI/CD pipelines for fully automated deployments with integrated testing.



High speed of the project through agile methods:

In order to guarantee the highest project speed, the project was implemented together with internal and external stakeholders using agile methods (Scrum). This enabled close collaboration between the software team, infrastructure development and project management.

"PROTOS Technologie GmbH supported us in the integration and migration of an external application into the complex DB Regio Kosmos. By integrating this new application, we will be able to offer our customers an even broader product portfolio in nationwide passenger transport in the future. Thanks to the cooperation, we were able to successfully implement and realize compliance requirements, high availability and automated deployments. We were accompanied and supported by the PROTOS cloud experts throughout the entire period, highly professionally and at eye level."

*Jörg Dierks, Head of Cloud & Network
DB Regio AG, Bus Division*


NEXT STEPS

Naturally, every project is tailor-made and what works for some customers may not be the ideal solution for others. In workshops with your team, we determine your individual requirements and design customized solutions for your needs. Discover the potential of the AWS Cloud for your company and book an [appointment](#) with a PROTOS Cloud Expert today.



ABOUT PROTOS TECHNOLOGIE

We are convinced that flexible, fast and scalable IT is the backbone and future of modern companies. As the interface between IT and management, we work hand in hand with you. We support your team as consultants in your current cloud topics such as migration, redesign and technical project management.

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