Case study:
Symfonia

CLIENT:

Symfonia Sp. z o.o.   www.symfonia.pl

SERVICE:

Business process management software: finance, accounting, HR, production

AWS SERVICES USED FOR IMPLEMENTATION:

AWS STEP FUNCTIONS

AWS APPSTREM 2.0

AWS RDS SQL SERVER

SOLUTIONS USED FOR THE IMPLEMENTATION:

AUTOMATION

APPLICATION SCALING

24/7 MONITORING AND SUPPORT

1 CLIENT & SERIVCE

symfonia

Symfonia is a company that supports the growth of small and medium-sized enterprises in Central and Eastern Europe, helping them achieve harmony in business – combining potential and structure, ambition and peace of mind, growth and trust. Its goal is to become the first choice for businesses on their path to harmonious and stable development.

The software created by Symfonia combines innovation and security, offering flexible solutions tailored to every stage of a company's growth – from microenterprises to large corporations.
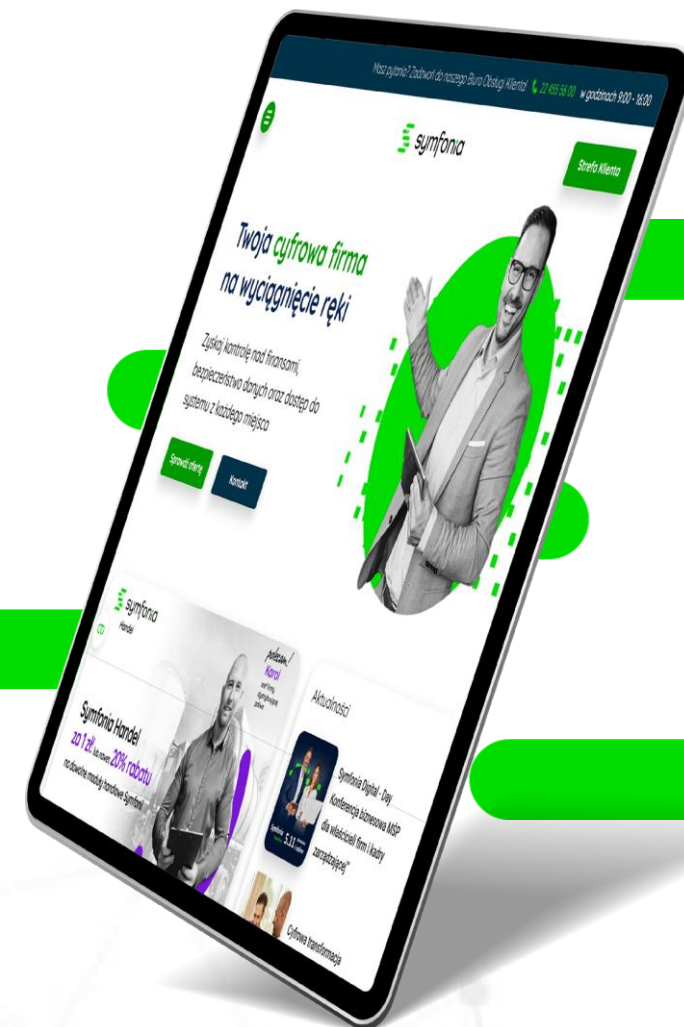
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1 CLIENT & SERIVCE

Symfonia's portfolio includes ERP systems for managing finance, accounting, payroll, HR, as well as sales and production, available in cloud, desktop, and hybrid versions.

For the retail sector, Symfonia offers solutions for warehouse management, sales, and integration with e-commerce platforms. It also provides cloud and mobile applications, ensuring flexibility and convenient access to data from anywhere. Documentation management tools, including document workflow automation and integration with the National e-Invoice System (KSeF), allow businesses to focus on strategic goals.

Symfonia's solutions simplify everyday operations and support companies in their harmonious growth.

1 **CLIENT & SERIVCE**

The project concerned the solution "Symfonia in the Cloud", which enables running a business fully online, eliminating the need for local servers. The system provides tools for managing accounting, finance, payroll, and human resources, with access available anytime and anywhere. Integrated modules ensure smooth management of key business processes. The system automates many operations, increasing work efficiency and minimizing errors.

Symfonia in the Cloud

Currently, customers increasingly prefer solutions delivered in the SaaS model, particularly in the case of smaller enterprises for which the costs of maintaining IT infrastructure are significant. In response to these needs, Symfonia sought a solution that would enable its software to be offered in the cloud, in a SaaS model, in a way that is both convenient for the customer and secure. An important aspect of the project was also **cost reduction by avoiding the need to simultaneously maintain and develop both web and desktop versions** of the application.

As part of this initiative, LCloud was engaged, among other tasks, in validating the developed business plan for cloud migration. By leveraging the **AWS Migration Acceleration Program (MAP),** LCloud carried out two key phases of the project: Assess and Mobilize, ensuring thorough preparation and pilot implementation of the cloud-based solution.

3 Implementation of the AWS MAP program

In the first phase of the project, called Assess, we analyzed and validated the previously developed Business Case, focusing on the business benefits of migration and assessing the organization's readiness to adopt cloud computing.

We also carried out a Proof of Concept, which made it possible to test new solutions such as AWS RDS for SQL Server, AWS AppStream, and AWS S3.

The next step was **the Mobilize phase,** during which we carried out a pilot implementation that allowed us to test selected applications and services in the AWS environment. This enabled us to verify the migration assumptions and identify areas requiring additional optimization.

The execution of this phase provided not only a solid technical foundation but also practical validation of the cloud infrastructure's performance, minimizing the risk of failure in the subsequent stages of the project.

4 **Solutions**

To ensure a modern and flexible operating model, **the AWS AppStream 2.0 service was implemented, enabling the streaming of desktop applications without the need for refactoring.** By using a shared database with dedicated schemas for clients, infrastructure costs were reduced.

The customer portal serves as the place where users make their purchase and are then redirected to the AppStream service. Customer provisioning and session management were handled using prepared AWS Step Functions and a set of Lambda functions.

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4 Solutions

The AWS AppStream 2.0 service maintains a fleet of virtual machines on which application streaming can be run. The pool of machines is dynamically scaled depending on current resource usage, which, through **cloud-based pay-as-you-go billing, helps reduce costs.**

At the start of a session, a virtual server is assigned to a single user, after which their configuration and data are loaded. Within a few seconds, the user gains access to the launched Symfonia application, available through a web browser.

When the session ends, the server is released and becomes available for use by another customer.
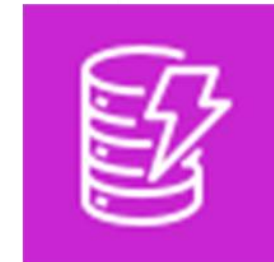
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We used the following technologies:

AWS Lambda
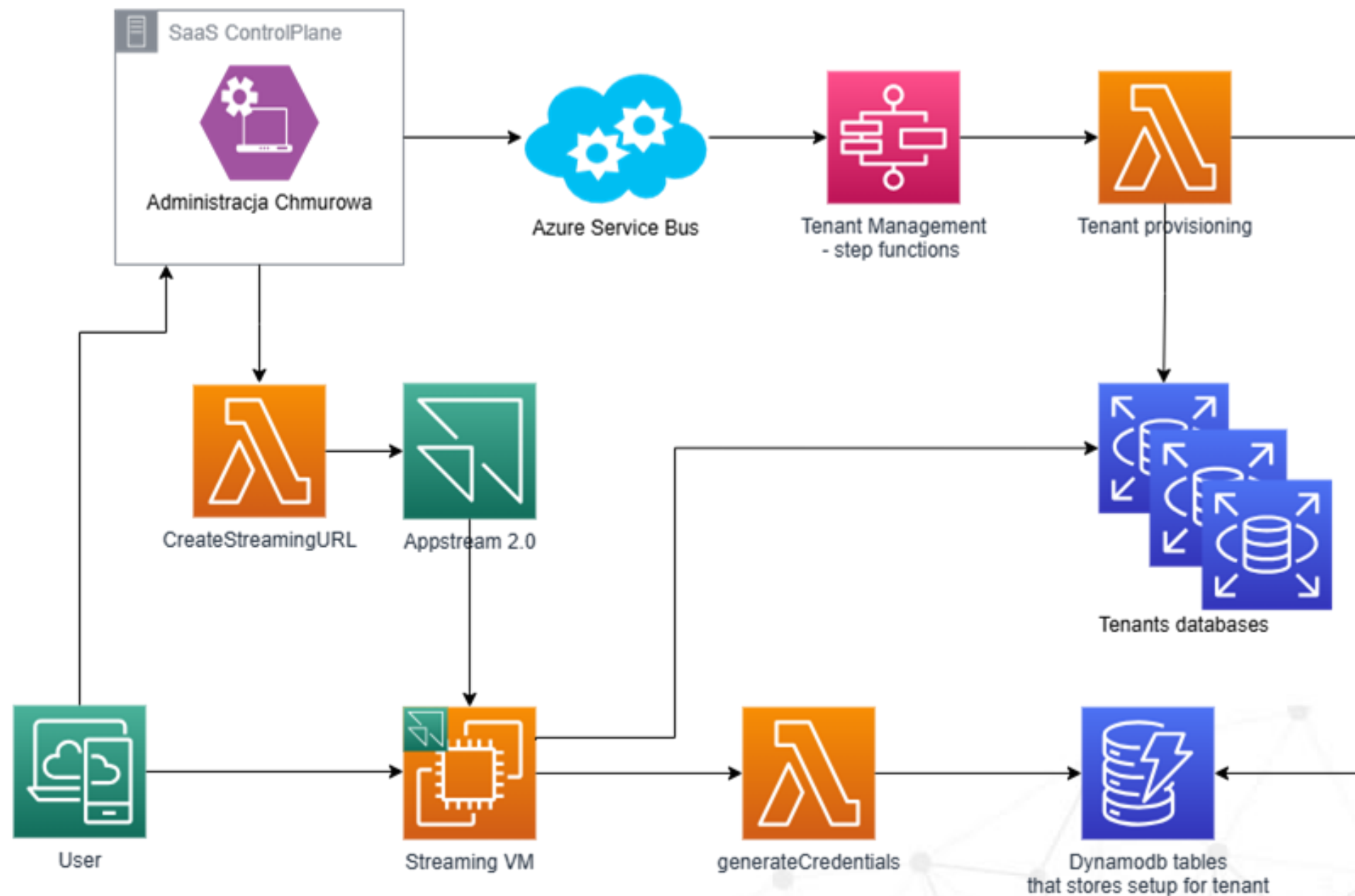

AWS S3

AWS DynamoDB

AWS RDS SQL Server

AWS AppStream 2.0

AWS Step Functions

Architecture diagram

Case study: **Symfonia – business process management software**

Results of the AWS Migration Acceleration Program

- **Verification and validation of the Business Case**, which addressed the understanding and justification of the business benefits resulting from cloud migration.

- Execution of a Proof of Concept, which made it possible to **test the new infrastructure**, including AWS VPC, AWS RDS for SQL Server, as well as services such as AWS AppStream and AWS S3.

- **Implementation of a pilot deployment,** which minimized migration risk and enabled testing of the application's performance in AWS.

6 **Results**

- **Providing desktop applications in the SaaS model**

  Thanks to AWS AppStream 2.0, Symfonia's applications are available in the SaaS model, eliminating the need for local installation and making access easier for smaller businesses.

- **Reduction of operational costs**

  The pay-as-you-go model in AWS AppStream 2.0 allows resources to scale according to demand, eliminating the costs of maintaining unused machines.

- **Minimization of refactoring efforts**

  Streaming applications instead of a full migration to a web architecture reduced both costs and implementation time, requiring only minimal changes to the applications.

6 **Results**

- **Efficient customer service and fast implementation of changes**

  A serverless application based on AWS Lambda and AWS Step Functions automates session management, provisioning, and backup, accelerating processes and minimizing errors. It enables rapid deployment of new versions and provides user support.

- **Availability and scalability**

  Symfonia's application is highly available and operates via a web browser, offering dynamic resource scaling to handle increased traffic without additional investments.

- **Enhanced security**

  Data is stored in Amazon RDS for SQL Server and AWS S3, ensuring security and compliance with regulations.

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7 Achieved effects:

- **Remote access to on-demand applications –** online access to Symfonia Finance and Accounting, Trade, Document Repository, and Fixed Assets from anywhere in the world.

- **Updates managed by Symfonia –** always the latest version of the software, with no additional work or financial outlay required.

Remote access
to programs
on demand

Flexible business growth
cloud resource scalability

Cost reduction
maintenance
and infrastructure

Stability and security
infrastructure and data.
A reliable AWS business partner, regularity and reliability of backups.

Quick
start guide
for Symphony

Updates on the Symfonia side
always up-to-date version

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7 **Achieved effects:**

- **Security and stability** – of both infrastructure and data, ensured through cooperation with the trusted cloud provider Amazon Web Services and reliable, recurring backups.

- **Business scalability in the cloud** – flexible cloud resources.

- **Cost reduction** – infrastructure and maintenance costs aligned with actual resource usage, reduced by 68%.

- **Fast onboarding with Symfonia** – cloud-based software available on demand, at any time, without a lengthy implementation process.
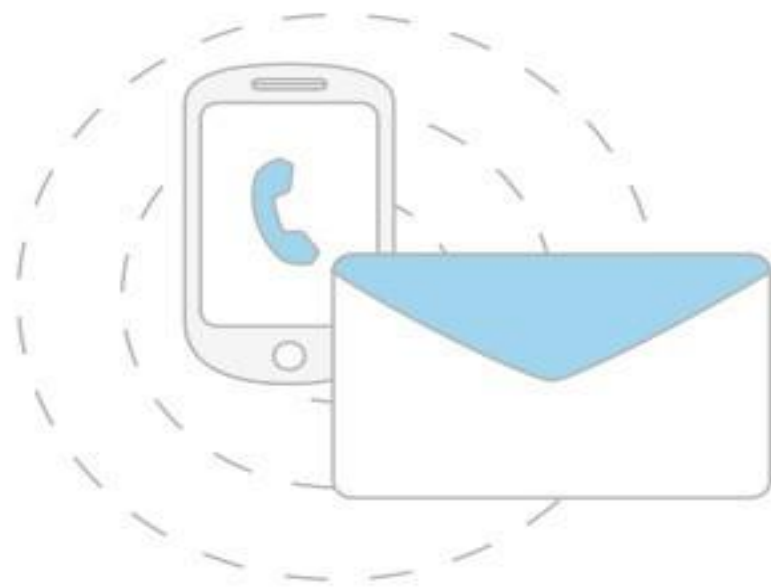
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