



Building a Scalable Cloud Application to Support the Rapid Growth of a Digital Payments Solution

Situation

CyberMoney® from CyberBanque is a digital payments solution that enables consumers to make secure device-agnostic payments for goods and services in-store, online or via mobile commerce. The application is a touchless and easy-to-use digital substitute for credit cards, cash and checks. It's designed to be a lower-cost alternative that enables a seamless payment experience across all sales channels.

CyberBanque experienced a tremendous growth period with the rapid onboarding of merchants, payment processors, financial institutions and consumers. The company needed a scalable and secure solution with enough capacity to process millions of daily transactions.

The company was eager to take advantage of the benefits of hosting its application on Amazon Web Services (AWS) to improve the scalability and performance of its global financial payment platform.

“With the incomparable assistance of SenecaGlobal, CyberBanque has been able to take full advantage of AWS services and achieve our very aggressive goals.”

Al DeBonnett, Director and COO, CyberBanque

The SenecaGlobal Solution

CyberBanque engaged SenecaGlobal to develop front-end mobile applications, merchant point of sale software solutions and APIs to enable user authentication and payment and settlement services for transactions.

The dedicated SenecaGlobal development team designed CyberMoney to:

- Secure the code, data and infrastructure for the application.
- Enable user-friendly and resilient mobile payment product offerings.
- Support scalable, on-demand and device-agnostic applications.
- Deploy easily without the need for SysOps personnel.



Leveraging AWS tools to enable a microservices architecture

To gain more flexibility and scalability in the ongoing development of CyberMoney, SenecaGlobal decomposed the application into microservices based on business functionality and leveraged the following:

- AWS Fargate and Docker — to enable on-demand scalability
- Amazon Elastic Container — to store Docker images
- Elastic Load Balancing — to manage the load between services
- Amazon Route 53 — to manage DNS services
- Amazon Simple Storage Service buckets — to upload data securely
- Amazon Simple Email Service — to send email notifications to users
- Amazon CloudWatch — to monitor and maintain service health



Results

The CyberMoney application was deployed on the AWS platform with the ability to scale to support:

- 1 million+ merchant locations
- \$660 billion+ in annual sales revenue
- 8 billion+ mobile devices

CyberBanque is well positioned to serve the growing demand for touchless digital payments and the more than 30 million underserved U.S. consumers who can benefit from access to the next generation of banking services and products.

About SenecaGlobal

Founded in 2007, SenecaGlobal is a global leader in software development and management. We specialize in cloud-native software development and management and enterprise resource planning (ERP) managed services. The company is an AWS Advanced Consulting Partner and a certified Great Place to Work® (2020).

Contact SenecaGlobal to learn more about how the right software development and management partner can help your organization.

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