

# Application Scaling with Cloud Migration and Modernization

## About the Customer

Our client is a leading provider of innovative homecare management solutions, specializing in serving the Medicaid LTSS (Long-Term Services and Supports) population. Their comprehensive web-based platform connects providers, payers, and members, facilitating efficient care management through an intuitive interface.

## TECHNOLOGY STACK

- **Azure Event Hub:**  
For managing data pulls and publishing data.
- **Azure Functions:**  
For developing scalable microservices.
- **Postgres on Azure:**  
For database management.
- **Angular:**  
For modernizing the user interface.
- **CI/CD Approach:**  
For continuous integration and deployment, ensuring rapid release of new features
- .NET, SQL Server, Cosmos, Azure Messaging Service



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The solution is adaptable and can be customized to suit the needs of healthcare diagnostics providers, food manufacturers & retailers.

## BUSINESS CHALLENGE

The customer faced significant challenges in integrating and scaling their services to meet the growing demands of their expanding user base. To overcome these hurdles, they sought a transformation to a more scalable and reliable cloud-based architecture.

**Lack of Integration:** The absence of a centralized platform for visit logging and subsequent approvals led to contentions and accounting delays.

**Scalability Issues:** The existing infrastructure struggled to handle the increasing number of states and care workers being onboarded.

**Resource Allocation:** Inefficient resource allocation was a significant issue, affecting the platform's performance.

**Availability:** The platform needed improvement in availability to ensure uninterrupted service for users.

## BUSINESS SOLUTION

To address these challenges, SPAR implemented a comprehensive cloud migration and digital platform transformation strategy using Microsoft Azure:



**Application Scaling with Cloud Migration:** Transitioned the application from on-premise to the Azure cloud to enhance scalability and performance.



**Azure Messaging Services:** Utilized Azure Event Hub to manage third-party data pulls and publish data for downstream applications and third-party applications.



**Front-End and Database Cloud Migration:** Shifted the front end to the cloud and upgraded the database from an on-premise SQL server to Postgres.



**Microservices Architecture:** Leveraged Azure Functions to develop scalable microservices.



**UI/UX Upgrade:** Modernized the user interface from web forms to Angular for a better user experience & accessibility.



**Security and Compliance:** Implemented robust security measures and ensured compliance with industry regulations. HIPAA & Hitrust.

## BENEFITS

- 1 **Legacy Platform Consolidation:** Created a unified platform for members and homecare workers, facilitating seamless visit logging and approvals.
- 2 **Enhanced Scalability:** The Azure cloud infrastructure allowed for easy onboarding of new states and care workers without additional resource allocations.
- 3 **Efficient Resource Utilization:** Optimized resource allocation, leading to better performance and reliability.
- 4 **High Availability:** Achieved a remarkable 99.9% platform availability, minimizing service interruptions.
- 5 **Faster Development and Deployment:** The CI/CD approach enabled quick release of new features, enhancing the platform's functionality.
- 6 **Superior User Experience:** The UI/UX upgrade to Angular provided a modern and intuitive interface for users.
- 7 **Robust Security:** Enhanced security measures ensured the integrity of the recruitment process.