

Customer Case Study

Daymark architected and rapidly deployed a new web application in the Azure cloud for Alegeus healthcare consumers, meeting the client's stringent security, availability and performance requirements in a cost-effective manner.



Customer Overview

Alegeus is the market leader in consumer directed healthcare solutions, offering the industry's most comprehensive platform for the administration of healthcare benefit accounts. Alegeus runs a dozen mission-critical databases that must be secure, highly available and consistently perform with minimal latency.

Assessing the Environment

Alegeus wanted a new customer-facing web application for healthcare consumers that would provide access to several of their back-end databases. The CTO challenged the Alegeus IT team to deploy this front-end application in the cloud while meeting their security, availability, performance and cost requirements.

Client Challenges

Alegeus faced several challenges with this customer-facing web app:

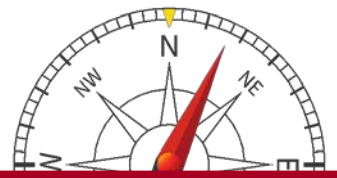
- Pressure to quickly deliver the app
- Lack of cloud expertise, specifically Microsoft Azure
- Ensure the highest level of security and data privacy
- Meet compliance requirements of stringent healthcare regulations

We relied heavily on the Azure knowledge and expertise of Daymark's consultants, particularly in meeting our stringent security requirements."

*Ray Beaulieu, Director
of Information Technology,
Alegeus.*

The Solution

Alegeus partnered with Daymark Solutions to design and deploy their first cloud-hosted application in the Microsoft Azure cloud. Alegeus leaned heavily on Daymark's Azure cloud expertise to ensure that the application was implemented in a timely manner and adhered to their security, availability and performance requirements. Deploying this important customer-facing web application has set the stage for Alegeus to migrate and roll out future applications in the cloud. They also leveraged this project as an Azure training exercise for their IT staff.



Of particular concern to Alegeus was the security setup of the application and access to in-house proprietary databases. The network design and associated security became the most complex and important part of the project. Daymark's consultants were invaluable in this area, working through tough data privacy regulations, to design a solution that met all Alegeus' stringent security requirements.

The design leveraged micro-segmenting so that each network segment could be assigned a unique network security group. Inbound and outbound traffic rules were then used to ensure that only specific access was granted to Alegeus' virtual network gateway. Each subnet segment was designed to provide access to specific servers with each server serving a unique function. For example, one subnet was used specifically for the Remote Desktop Connection into Alegeus' virtual network.

To address performance and availability requirements, the application was deployed in both East Coast and West Coast Microsoft data centers. This allowed traffic to be locally routed as well as provide failover in the event of a regional disaster.

Key Benefits:

- Delivered customer-facing web app on time and on budget
- Met stringent security requirements including the ability to support security certificate offloading
- Met availability and performance requirements in a cost-effective manner
- Protected all virtual servers running in Azure cloud
- Enhanced DR preparedness leveraging Microsoft East and West Coast data centers
- Trained internal Alegeus IT staff on Azure cloud deployments
- Lowered overall cost and complexity
- Enabled IT to become a strategic business partner, ready for further application innovation
- Took advantage of Microsoft financial incentives for new Azure customers

The Daymark Difference

We take the complexity out of your IT infrastructure. Daymark architects and implements data center infrastructure, data protection, virtualization, managed services and cloud services for businesses throughout New England.

We provide deep technical knowledge, extensive experience and proven methodologies that help our clients make strategic decisions, streamline the acquisition process and successfully implement cost-effective data management infrastructure solutions.