HEALTHCARE

six nines
Cloud Responsibly™

MIGRATING HEALTHCARE MICROSOFT WORKLOADS TO AWS

CUSTOMER OVERVIEW

pharos INNOVATIONS

Six Nines architected and deployed a cloud-based environment for Pharos Innovations, a SaaS platform that incentivizes performance and value-based healthcare, and successfully migrated the company's legacy Windows-based applications to Amazon Web Services (AWS).

CHALLENGES

The Pharos platform works by decreasing avoidable inpatient utilization, driving individual patient behavioral change, leveraging real-time patient health data, and developing sustainable and efficient care management models. By utilizing advanced algorithms and daily patient surveys, the platform analyzes patient responses, flagging outliers and providing real-time feedback to the patient. As a medical technology provider that processes PHI data, Pharos fell under strict HIPAA compliance and was having trouble scaling their architecture with their on-premises data center.

> *"Jason and the Six Nines team took our small, old-school-thinking web architecture and 'AWS-ifed' it. Their support, leadership and expertise has given us the confidence we need to build a scalable infrastructure to meet our growing business needs."*
> – Ryan Royal, Vice President of IT, Pharos Innovations

SOLUTION

As an AWS Partner Network (APN) Premier Consulting Partner with almost a decade of cloud experience, Six Nines was able to successfully architect and deploy a cloud-based environment for Pharos Innovations. Six Nines started by conducting an architecture review and assessment of the current on-premises environment. After mapping the company's on-premises technical stack, Six Nines architected a proposed infrastructure on AWS with recommendations for the customer.

The architecture utilized AWS' HIPAA compliant services and managed services. The design was a VPC with a web tier on a dedicated host in a public subnet behind a public-facing AWS Elastic Load Balancing (ELB). Traffic was then routed to an internal ELB into a .NET application server in a private subnet, also on a dedicated host. The application tier traffic was then routed into a second private subnet holding an Amazon Relational Database Service (Amazon RDS) MSSQL database. The application tier and database tier were allowed external internet access for updates via the NAT server in the public subnet.

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AWS SERVICES USED:

- Amazon Virtual Private Cloud (VPC)
- AWS Elastic Load Balancing (ELB)
- Amazon Relational Database Service (Amazon RDS)
- Amazon Route 53 – DNS Service

RESULTS

By leveraging the AWS environment, Pharos was able to scale immediately to meet growing worldwide demand. It also paved the way for additional horizontal scalability by preemptively including external and internal ELBs pointing towards the web and application tiers respectively. The Amazon RDS MSSQL is easily scaled for both HA and DR when Pharos deems necessary.

Ultimately, Six Nines successfully architected and deployed the project on time and under budget, delivering a scalable and high availability infrastructure with no single point of failure.

aws partner network

Premier
Consulting Partner

DevOps Competency

Microsoft Workloads Competency

Solution Provider

WHY SIX NINES?

Six Nines IT is an AWS Partner Network (APN) Premier Consulting Partner and AWS Solution Provider specializing in helping businesses migrate to the cloud responsibly. A member of the APN since its inception, Six Nines has successfully migrated hundreds of customers across all industries to the cloud and offers an unparalleled combination of speed, agility, experience, and proprietary solutions to deliver accelerated solutions and a rapid time-to-value. The Oakland-based company combines old-school, on-premises IT roots together with deep expertise and a laser focus on all things AWS – including a core concentration on High Performance Computing and Microsoft Workloads (AWS Microsoft Workload Competency and AWS DevOps Competency) – to deliver bespoke solutions that are individually tailored to meet customers' unique needs throughout the cloud lifecycle.

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