

# Banyan Medical Solutions: Advancing Healthcare Data Security and Compliance in the Cloud

A pioneer in virtual nursing enhances electronic medical records security on their flagship AWS platform, ensuring a scalable and compliant future.





# Mastering Momentum in Healthcare

Nothing is more important to Banyan Medical Solutions than protecting their customers' data. They needed a [trusted partner](#) with proven expertise in [healthcare technology solutions](#), so they turned to TEKsystems Global Services (TGS). We assessed and enhanced the AWS cloud security and governance framework to ensure alignment with evolving healthcare security standards, mitigating risk and providing their customers with peace of mind.



## What We Did

AWS

Risk and security



## Industry

Healthcare



## Results

Enhanced AWS security and governance framework



## Key Integrations

AWS

## The Challenge

### **Evaluation: AWS Well-Architected Framework Review**

#### [Implementing Risk and Security Best Practices](#)

Banyan Medical Solutions was the first to bring virtual nursing care to the healthcare industry. Impressive, right? Since 2008, they have transformed healthcare delivery through virtual nursing solutions. Hospitals and healthcare systems rely on the company's proprietary platform, BanyanConnect, to integrate electronic medical records (EMRs), ensuring coordinated and efficient care for their patients. They built their flagship application on AWS to provide scalable, innovative patient care solutions.

As an AWS Premier Tier Services Partner, TGS brings deep [expertise in cloud security](#) and governance. By using AWS Well-Architected Framework Review (WAFR), our team provided Banyan Medical Solutions with a structured roadmap to [enhance security](#), [mitigate risk and ensure compliance](#) with industry standards. This gave them the confidence and tools to better secure EMR systems and protect sensitive patient data.

## Our Solution

### **Diagnostics: AWS' Proven Security Framework**

#### [Prioritizing Compliance, Identity Management and System Reliance](#)

A dedicated TGS practice architect (PA) worked alongside the Banyan Medical Solutions team to advise, evaluate and implement healthcare data security solutions to improve their AWS account structure. The first step? Conduct a WAFR to identify potential areas of improvement.

Based on the WAFR finding, our PA led the charge to reinforce best practices in the confidentiality and integrity of data while establishing controls to detect security events.

#### **The plan:**

- Strengthen security and compliance by refining AWS cloud security posture to meet evolving industry standards.
- Implement best practices for governance, access control and system resilience.
- Enhance customers' confidence by demonstrating a commitment to cloud security excellence.





## Powerful Partnership

### Treatment: Building a Scalable and Compliant Cloud Environment

#### Enhancing Governance and Operational Efficiency

Banyan Medical Solutions, collaborating with our experts, strengthened their AWS infrastructure, focusing on governance, security and operational efficiency. This approach provided a structured and forward-thinking security framework, ensuring that their AWS environment remained resilient and aligned with industry best practices.


#### Key initiatives included:

- Enhancing support for Azure AD and Okta, enabling secure, multitenant authentication to achieve seamless identity and access management (IAM)
- Implementing backup and restore functionality, ensuring business continuity and disaster recovery readiness to improve operational resilience
- Establishing multifactor authentication (MFA), single sign-on (SSO), SSL/TLS encryption and AWS Control Tower governance to maintain a strong security foundation
- Strengthening audit and reporting capabilities with AWS CloudTrail log retention and AWS Security Hub benchmarks
- Improving security controls with Web Application Firewall (WAF) implementation to bolster application security and network protection

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## Real-World Results

Banyan Medical Solutions improved their AWS security framework, supporting ongoing compliance with healthcare data security regulations because of the expertise of TGS. By aligning with AWS cloud security best practices, Banyan Medical Solutions continues to deliver innovative virtual care solutions and remains well-positioned to support the growth of BanyanConnect while ensuring compliance, reliability and customer trust.



“Working with TEKsystems Global Services and AWS significantly reduced our time to market and, more importantly, allowed us to meet the strict security demands of our healthcare customers.”

**Greg Wilson** // Vice President of Product Engineering at  
Banyan Medical Solutions

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We're a leading provider of business and technology services. We accelerate business transformation for our customers. Our expertise in strategy, design, execution and operations unlocks business value through a range of solutions. We're a team of 80,000 strong, working with over 6,000 customers—including 80% of the Fortune 500—across North America, Europe and Asia, who partner with us for our scale, full-stack capabilities and speed. We're strategic thinkers, hands-on collaborators, helping customers capitalize on change and master the momentum of technology. We're building tomorrow by delivering business outcomes and making positive impacts in our global communities. TEKsystems and TEKsystems Global Services are Allegis Group companies.

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