

Unlock Data Resilience for Reliable Patient Outcomes on AWS



Business Challenge

Healthcare organizations face an unprecedented rise in sophisticated ransomware attacks targeting patient data and critical systems. Simultaneously, the explosion of medical data from EHRs, genomics, and digital pathology strains legacy infrastructure, creating compliance gaps and operational silos. Leaders struggle to balance innovation in digital health with strict regulatory mandates such as HIPAA. For healthcare organizations, compliance is more than just a checkbox—it puts the lives, safety, and well-being of patients at risk.

Solution Overview

Veeam and AWS deliver intelligent resilience for healthcare organizations with unified data protection, security, and compliance across hybrid and cloud environments.

Veeam Data Platform (VDP) delivers cloud resilience for AWS with rapid recovery, compliance-aligned security, and intelligent threat detection. For Kubernetes workloads, Veeam Kasten provides purpose-built, application-aware data protection designed specifically for cloud-native environments.

Together, VDP and Kasten create a unified, end-to-end resilience strategy across cloud and Kubernetes workloads. Extend that protection with Veeam Vault as your secure, fully managed cloud repository for immutable backup storage—reducing vendor sprawl while strengthening cyber resilience.

\$7.42M

The average cost of a healthcare data breach, largely due to higher regulatory fines and detection & escalation costs.

89%

of organizations had their backup repositories targeted by threat actors.

70%

of healthcare organizations hit by cyber attacks reported disruptions to patient care.

Benefits

- Achieve unwavering ransomware protection with immutable backups that isolate patient records.
- Ensure continuous availability for critical EHR systems with near-instant recovery capabilities.
- Reduce cloud storage costs by automatically tiering older medical imaging data to Amazon S3 Glacier.
- Simplify audit readiness with automated documentation and verification for HIPAA and GxP compliance standards.

Use Cases

Ransomware Resilience for Healthcare

Secure patient records against encryption attacks by using air-gapped, immutable storage that attackers cannot modify, delete, or hold for ransom.

Protecting Digital Health Applications

Protect stateful microservices on Amazon EKS to support reliable telehealth portals and ensure uptime for AI diagnostic tools used in patient care.

Seamless Hybrid Cloud Mobility

Migrate workloads easily between on-premises data centers and AWS regions to support flexible disaster recovery strategies or rapid clinic expansions.

High Availability for EHR Applications

Maintain hospital operations by providing instant recovery for massive electronic health record databases running on Amazon EC2 and Amazon RDS instances.

Automated Regulatory Auditing

Simplify HIPAA and GxP adherence with automated testing and detailed reporting that verifies data recoverability for strict regulatory audit requirements.

Cost-Effective Data Archiving

Migrate workloads easily between on-premises data centers and AWS regions to support flexible disaster recovery strategies or rapid clinic expansions.

Conclusion

Together, Veeam and AWS help transform data protection from a reactive operational burden into a proactive strategic advantage. We ultimately enable healthcare organizations to focus on their primary mission of delivering superior patient outcomes and advancing medical research in a secure, resilient digital environment.

By adopting Veeam on AWS, healthcare organizations gain a robust defense against the evolving threat landscape while unlocking the full potential of cloud innovation.



About Veeam Software

Veeam, the #1 global market leader in data resilience, believes businesses should control all their data whenever and wherever they need it. Veeam provides data resilience through data backup, data recovery, data portability, data security, and data intelligence. Based in Seattle, Veeam protects over 550,000 customers worldwide who trust Veeam to keep their businesses running. Learn more at www.veeam.com or follow Veeam on LinkedIn [@veeam-software](#) and X [@veeam](#).

Veeam + AWS

Veeam and AWS go beyond typical backup and recovery, providing cyber-resilient solutions for protecting cloud, virtual, physical, SaaS, and Kubernetes environments. Veeam's powerful solutions on AWS enable you to quickly restore when cyberattacks, like ransomware, occur, helping minimize downtime so you can continue business as usual.

➔ Learn more: veeam.com