VERITAS | ▦ Microsoft

Always On, Always Ready

Healthcare Data Protection Handbook

Introduction

Veritas and Microsoft have pioneered the way in data protection and data management, firmly establishing themselves as authorities and earning the reputation of being best in class. As a top-tier provider of backup, recovery, and data management, together they can confidently support any landscape. Data is the lifeblood of the healthcare sector. And as data becomes more distributed and complex, the challenges to maintain control over it increase drastically.

Healthcare Organizations Today Require:

- Resiliency of data across the entire organization, keeping all data and operations up and running, even in the face of ransomware and other cyberattacks.

- Applications must be highly available 24/7, because slow might as well be down.

- Constant diligence to stay up to date on new regional, industry, and privacy regulations, ensuring they stay compliant and reduce risk.

Data Protection	Application Resiliency	Data Compliance and Governance
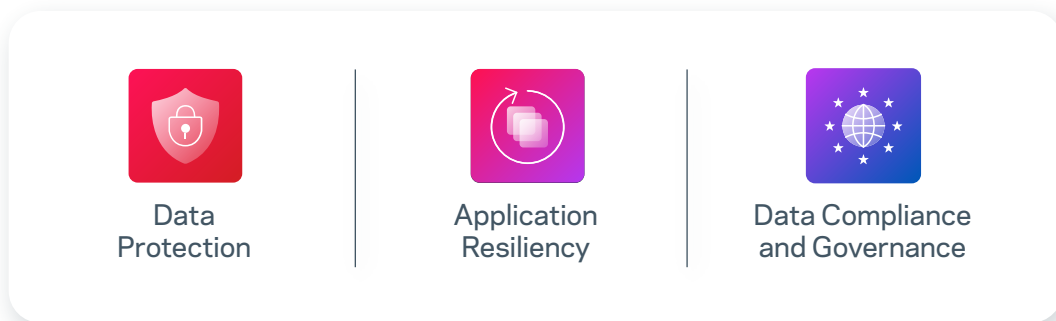
Veritas solutions provide healthcare organizations with a multi-layered cybersecurity strategy that extends anywhere data resides so that no data is left unprotected, from edge to core to cloud. With data safeguards, privacy, and compliance solutions built on the foundation of zero trust principles, healthcare organizations can reduce vulnerabilities and potential attack surfaces. Solutions such as immutable storage, data vaults, and air gaps keep data secure and compliant regardless of location, while intelligent anomaly detection and malware scanning create alerts to monitor and mitigate in real time. Veritas also engineers its solutions with resiliency top of mind so that reliable, flexible, and rapid recovery keep data highly available and systems always on.

Data Protection

Veritas and Microsoft take data protection to the next level, offering healthcare organizations of all sizes the ultimate in security and unified data management.

Data Protection

✔ Protect, Access and Utilize Data

✔ Automate Flexible Recovery

✔ Provice Intelligent Observability

Healthcare organizations can take advantage of a comprehensive, multi-layered security approach that ensures total preparedness for any contingency, through recovery rehearsals and exercises, enhanced cyber resilience, and minimized attack surfaces via a zero trust posture. With top-of-the-line technology, you can rest assured knowing that data is safe and secure.

Protect your Data from Theft—Utilize the Cloud

Data protection in the cloud is easy and can be automated to repeat at chosen intervals. Many healthcare providers buy into the myth that the cloud is less secure, which is not true. When set up correctly, cloud data protection with Veritas offers identity access management, multifactor authentication, AES 256-bit encryption for data in transit and at rest, and analytics for greater visibility and better compliance.
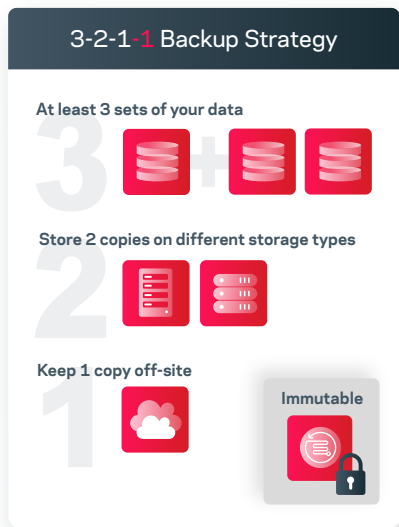
Veritas and Microsoft have partnered to bring healthcare-specific configurations, connectors, and applications to bolster your data security and cyber resilience.

94%

of healthcare cyberattacks impacted the ability to operate[1]

Keep your Data Safe from Ransomware

3-2-1-1 Backup Strategy

At least 3 sets of your data

Store 2 copies on different storage types

Keep 1 copy off-site

Immutable

Keep your data safe in an isolated, air-gapped immutable data vault within an isolated recovery environment by following the 3-2-1+1 backup rule. An IRE keeps backup copies completely separated from the primary network, giving administrators access to clean files when a ransomware attack occurs. An IRE is also a place where you can exercise your recovery strategy.

Veritas and Microsoft have come together to create a holistic approach to healthcare security, privacy, and compliance to prevent incidents that have the potential to disrupt critical care.

Stop Anomalous Activity and Run Malware Scanning

Implement measures to detect unusual data and user activity. Automate alerts that notify of suspicious behavior and changes to the environment. Get greater control by deploying detection and scanning tools that monitor an attempt at exfiltration, unauthorized transfer, export, or copying of data from a device. Scan and evaluate data sets, backups, and unstructured files to understand the liabilities and risks associated with user behavior.

Decades of experience have allowed Veritas and Microsoft to create intelligent solutions that meet compliance obligations and leverage AI-powered tools to go the extra mile.
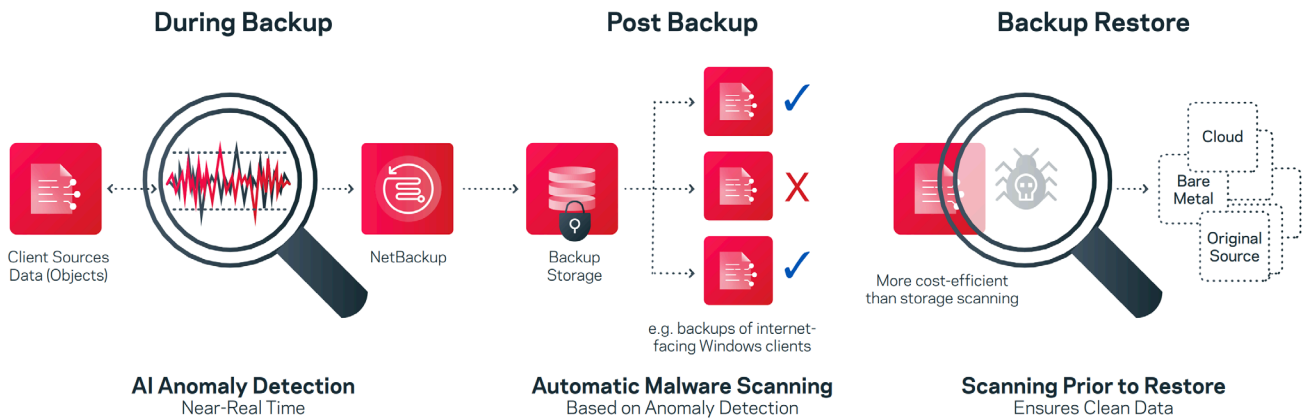
90%
of healthcare cyberattacks caused a loss of revenue[2]

Protection from Exfiltration and Extortion

Complete cyber resiliency means thinking about healthcare and patient data in terms of secure, potential gaps and vulnerabilities, and the risk of not managing data appropriately. Zero trust accounts for all three of these areas by enforcing an architecture that demands constant visibility and assessment of risk, reduction of risk with tools such as identity access management and role-based access controls, and reporting of the risk so there is continual improvements and observations in weak areas.

Veritas and Microsoft have joined forces with provider organizations of all sizes to overcome the daunting task of secure data management. With our zero trust solutions, healthcare providers have a comprehensive platform to conquer the complexity of managing and protecting critical data.

During Backup

Client Sources Data (Objects)

NetBackup

AI Anomaly Detection
Near-Real Time

Post Backup

Backup Storage

e.g. backups of internet-facing Windows clients

Automatic Malware Scanning
Based on Anomaly Detection

Backup Restore

More cost-efficient than storage scanning

Cloud

Bare Metal

Original Source

Scanning Prior to Restore
Ensures Clean Data

Application Resiliency

Veritas and Microsoft have joined forces to deliver unrivaled performance and keep mission-critical workloads running smoothly, always available, and highly resilient. With flexible storage sharing, organizations can create simultaneous access to cloud-based storage systems in and outside their zone. Take control of your data and leverage cross-cloud mobility and application portability, while maintaining data integrity when creating a backup and recovery strategy.

Application Resiliency

✔ Legacy Data

✔ TCO

✔ Data Visualization

✔ Avoid Lock-In

Veritas offers cutting-edge ability to automatically migrate cloud workloads to cost-efficient storage along with dynamic resources provisioning and containerized services that adjust to application performance requirements to ensure you'll never have to worry about overspending on unused resources again. With features that ensure critical applications have minimal downtime and avoid vendor lock-in, healthcare organizations can maintain the highest level of data availability to meet stringent service level agreements (SLAs).

Protect your Reputation with Application Resiliency

Staying safe from cyberattacks and disaster means staying flexible to retrieve everything across multiple levels of severity. Sometimes you may require everything to recover, sometimes you may need granular file retrieval, or you may need to rollback hundreds of VMs. Veritas makes it easy to limit downtime and maximize resources for your recovery needs, so healthcare providers can restore anywhere you need within your SLAs.

Veritas and Microsoft can help you reach total resiliency with lightning fast recovery.

1 week

was the average time to recover from a ransomware attack[3]

Data Compliance and Governance

As enterprise-scale solutions become more essential for businesses that have adopted Microsoft 365, Veritas bolsters data security and increases visibility and control. These include backup and recovery, as well as up-to-date eDiscovery functions, comprehensive archival and classification systems, and categorization—all aimed at meeting any challenge head-on.

Data Compliance and Governance

✔ Accelerated Discovery

✔ Classification

✔ FOIA/SARs

With Veritas and Microsoft, you can capture and visualize anything, archive anywhere, and discover what matters, so you can close the vulnerable gaps and strengthen business continuity.

Better Compliance. Better Governance.

Healthcare providers are on the hook to prove to underwriters that they are doing their due diligence to reduce their level of cyber risk. Tightening up infrastructure to align to zero trust and the National Institute of Standards and Technology (NIST) framework not only reinforces identity access management and network segmentation, it also helps meet HL7 compliance, HIPAA compliance, and PHI laws. It also gives you a head start on future compliance and regulation requirements.

Veritas and Microsoft have experience in developing solutions for the largest and most critical systems in the world, not only keeping organizations cyber resilient and compliant, but also helping to reduce costs on site, at the edge, and in the cloud.

$1.85M

average cost to remediate and recover from ransomware attacks[4]

Protect your Data with Clear Visibility

Visibility into your infrastructure is key to maintaining stronger compliance. How can you protect what you don't know you have? Healthcare organizations can benefit from unified insights and a customizable interface that can see everything on site, as well as in hybrid and multi-cloud environments.

Leveraging analytics for interoperability is key to spotlighting risks and vulnerable areas to uncover patterns and activities to maintain adherence to compliance standards. Mitigating risks in a centralized way with automation and intelligence paves the path for clean and better audits and reports. Make the most of capturing data to maintain FOIA compliance and efficiently categorize and transform data for actionable intelligence and enhanced control. Taking the necessary steps to protect and securely manage your data is critical for maintaining protected.

5 Imperatives to Implement Today
Create a multilayered data security plan with zero trust foundations.

1. Immutability
Immutable storage options, on-premises and in the cloud

- Prevent encryption or deletion of backups with immutable storage
- Built-in intrusion prevention system
- Take advantage of the Veritas Isolated Recovery Environment
- Immutable cloud storage support for Recovery Vault (Azure)

2. Isolation
Zero trust, logical and physical air gap, multi-factor authentication, control over data flow

- Know where your data resides and who has access to it
- Implement single sign-on, role-based access control and multi-factor authentication to limit and control access
- Enforce least-privileged access
- FIPS 140-2 certification with key management allowing customers to leverage their preferred key using KMIP

3. Integration
End-to-end integrated resiliency, simple integration with security ecosystem

- AES-256 bit encryption for data in transit and at rest
- IPv6 compliance updates
- TLS 1.2 certificates with 2048-bit key support to ensure encryption during transit
- STIG hardened appliances
- SOAR/XDR pause/resume based on security or maintenance events
- From a single console, monitor backlogs and be notified of events across domains to identify which hosts need updates

4. Intelligence
Autonomous detection, alerting and remediation

- Optimize RTO/RPO
- With automated scripting, run malware scans on isolated volume to ensure malware-free
- Manage availability and resiliency for applications of any type and importance with a single vendor solution with reporting
- Reduce vulnerability by staying current with security patches
- Runtime vulnerability checks and pen-testing through Veritas Flex

5. Insights
Identify unprotected data sets and highlight areas of risk

- Search, classify, and archive hundreds of file types in multiple languages
- Use OCT on images while categorizing audio/video files for better search
- Quickly adhere to regulatory requests from the SEC, FINRA, FDA, HIPAA, GDPR, FOIA, CPRA
- Policy based monitoring and near real-time alerting on malicious or anomalous behavior on user accounts
- Archive messages and metadata with an immutable audit trail
- Support content from both open-source and proprietary sources

1, 2, 3, 4. assets.sophos.com/X24WTUEQ/at/4wxp262kpf84t3bxf32wrctm/sophos-state-of-ransomware-healthcare-2022-wp.pdf

About Veritas

Veritas Technologies is a leader in multi-cloud data management. Over 80,000 customers—including 95 percent of the Fortune 100—rely on Veritas to help ensure the protection, recoverability, and compliance of their data. Veritas has a reputation for reliability at scale, which delivers the resilience its customers need against the disruptions threatened by cyberattacks, like ransomware. No other vendor is able to match the ability of Veritas to execute, with support for 800+ data sources, 100+ operating systems, 1,400+ storage targets, and 60+ clouds through a single, unified approach. Powered by Cloud Scale Technology, Veritas is delivering today on its strategy for Autonomous Data Management that reduces operational overhead while delivering greater value. Learn more at www.veritas.com. Follow us on Twitter at @veritastechllc.

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