COMMVAULT

Defend against ransomware with Commvault and NetApp

NetApp

Ransomware. It's no longer a question of if but when. When will you be hit, can you recover, is your data secure or will you be forced to pay the ransom?

75% of IT organizations will face one or more attacks[1]

70% of Ransomware attacks involve the threat to leak exfiltrated data[2]

21 Ransomware attacks can average 21 days of downtime[2]

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According to IDC, it's not just about adhering to regulatory compliance requirements. Just because you are compliant, does not mean your data is secure and recoverable. And, despite increased awareness around ransomware, the average ransom payment is almost a quarter million dollars. Plus, only 13% of organizations that experienced an attack or breach did NOT pay a ransom.3 These statistics reinforce the importance of data security as it relates to storage and the rapid recovery of your data. It's no wonder cyber resiliency and data security are top of mind for companies the world over. NetApp and Commvault can help put your worries to rest, protecting your data and enabling data availability across your data fabric.

3 things you need to consider

when choosing a ransomware solution:

1. **You need secure backups.** Modern malware targets snapshots, backup systems and associated backups. For this reason, you need to ensure your backup systems are hardened, snapshots/backups are immutable, and backup data is not compromised before recovery.

2. **The backstop for your data.** If your cyber security fails, backup becomes your last line of defense. Commvault's AI powered self-driving backup ensures you can meet your recovery SLAs, and NetApp SnapLock® helps provide data integrity and retention. Commvault's VM conversion tools make it easy to spin up workloads or whole environments in multiple clouds.

3. **Think 'data driven risk management'.** Do you have concerns about cyber-attacks in general? Risk management is more than just about malware. If data breaches, subsequent regulator fines and negative media coverage are a worry, then you need to better understand your risk profile. Commvault Activate makes the perfect partner to ransomware protection from NetApp and Commvault.

Commvault and NetApp have come together to provide a multi-layered approach to ransomware and other cyber-attack protection.

1. Gartner, Detect, Protect, Recover: How Modern Backup Applications Can Protect You From Ransomware, Jan 2021

2. Coveware Quarterly Ransomware Report, February 1, 2021

3. Dickson, F., & Kissel, C. IDC's 2021 Ransomware Study: Where You Are Matters!, July 2021.

3 steps to defend against ransomware

with Commvault and NetApp

1. **Prevention**
   Hardened backup system using AAA security framework and encrypted networks, AI anomaly detection and honeypots to spot attacks, plus AI recovery readiness reports to ensure SLAs are met.

2. **Secure recovery copies**
   NetApp Snapshot® and SnapLock® provides an immutable first recovery copy, with Commvault adding additional layers of controls to provide immutable backups, data isolation and air-gapped copy options for enhanced security.

3. **Rapid recovery**
   Quickly validate & recover critical apps, workloads or entire environments directly from any available media and use the cloud for disaster recovery if your own data center is unavailable.

Commvault® Software includes several tools to protect and restore your data and applications, including data isolation and air gapping, AAA Security Framework for application hardening, and environment monitoring through anomaly detection and honeypot files.

NetApp has proven technologies and capabilities you can leverage to detect and prevent ransomware using native ONTAP features, recover quickly from an attack, and avoid paying the ransom. NetApp provides an overall ecosystem and data protection strategy against ransomware, protecting your data regardless of where it is located, on premises and in the cloud.

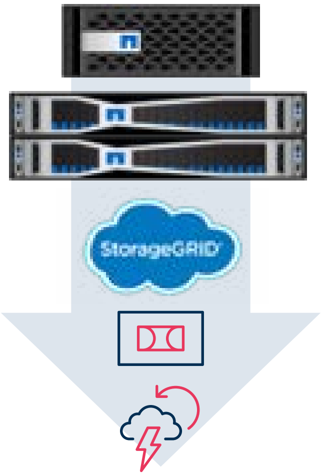
- NetApp® SnapLock® Compliance provides WORM capabilities that prevent data, including NetApp Snapshot™ copies, from being deleted before the retention period expires. This rule applies even to administrator accounts.
- Data encryption remains an industry focus. NetApp satisfies this focus while also maintaining a strong security posture across the full breadth of your hybrid cloud.
- Rapid recovery capabilities are of the utmost importance. However, with
- NetApp FPolicy™ detection and prevention capabilities, ransomware is stopped from spreading in the first place.
- NetApp embraces a Zero Trust approach to security with controls such as MFA, RBAC, comprehensive logging, and auditing to protect against ancillary attacks.

Better together

Better ransomware protection from 2 industry leaders:

Detection:	NetApp & Commvault both provide sophisticated tools to spot an attack early
Automation:	After detection, Commvault workflows can be triggered to sever network connections to isolate clients to minimize the spread of ransomware
Certified:	NetApp SnapLock® is compliance certified to strict SEC, FINRA & CFTC* standards
Secure:	Immutable backups, media & data isolation via network segmentation & encryption
AAA:	NetApp and Commvault provide hardening controls for Authentication, Authorization & Accounting

On by default security, resilient architecture, honeypots plus AI anomaly detection w/air-gapping and backup data isolation



Immutable snapshots	NetApp® ONTAP
Immutable backups	NetApp® Scale-out Data Protection
Secure long-term retention	NetApp StorageGRID®
Immutable media	Tape & WORM
Air-gapped cloud & immutable cloud storage	Cloud storage and disaster recovery (DR)

Prevention, protection + multiple layers of secure recovery copies, centrally managed by Commvault software

Ransomware and cyber threats will never be 100% avoidable, but together, Commvault and NetApp make it more difficult for an attack to be successful. Providing cyber resiliency for your organization has never been more important. Commvault and NetApp are working together to deliver security, compliance and data availability: better together.

COMMVAULT®
Be ready™

commvault.com | 888.746.3849
get-info@commvault.com