Immutable Protection for Critical Data

NetApp E-Series, StorageGRID and Veeam V11

NetApp | VeeAM

Business challenge

Ransomware, malware and insider threats continue to be top of mind for business and IT leaders for good reason. These attacks compromise access to your organization's lifeblood — data. Consequences can be dire as the threats become more frequent and complex. There is overwhelming evidence that ransomware attacks are becoming more sophisticated each day. Advanced ransomware is now seeking out and attacking secondary backups to prevent victims from successfully recovering during an attack. If you don't properly prepare, you may be forced to pay perpetrators to unencrypt your data or your data may be permanently unrecoverable. With millions of dollars spent annually to guard entry points to data and human error being the leading cause of malware attacks, many still underestimate the strategic value of a well-designed backup and recovery strategy designed not only to mitigate those external threats, but to also prevent malicious employee actions.

The new definition of "air-gapping"

Traditionally, the concept of "air-gapping" your data meant a completely read-only, offline copy of backups that in theory prevent an active ransomware attack from modifying or destroying your data. Tape backup historically has been the most common form of an air-gapped data protection solution from the primary data network. Although effective, tape backup is becoming an increasingly outdated technology due to slow recovery times, unreliable tape media, and the cost and complexity involved in maintaining a large tape backup infrastructure.

Business benefits

- **Reducing complexity:** Veeam® reduces overall complexity to create powerful yet simple immutable data protection against ransomware and insider threats.

- **Maintaining compliance:** Veeam delivers built-in, end-to- end AES 256-bit encryption, giving you the ability to encrypt backup files and data at source (during backup), in flight and at rest.

- **Reducing storage costs:** NetApp and Veeam leverage deduplication and compression to deliver 50% or more savings on long-term data retention costs.

- **Enterprise grade:** NetApp E-Series and StorageGRID provide high performance short-term and economical long-term enterprise grade data protection with complete guaranteed immutability of data.

- **High performance:** NetApp and Veeam are providing lower recovery point objectives (RPOs) and recovery time objectives (RTOs) in the industry, getting your data back to work for your business as fast as possible.

Modem air gaping solutions provide the complete data immutability benefits of legacy solutions, with the added benefits of ultra-fast and guaranteed recoverability while still leveraging online data sources.

NetApp and Veeam are uniquely partnered to provide completely 100% ransomware-proof data protection for all data types, including virtual, physical, NAS and cloud-native.

Solution overview

Veeam Hardened Repository on NetApp E-Series

To prevent attacks on backups, Veeam Backup & Replication™ v11 introduces the "Hardened Repository" feature. It makes backups immutable for a configured amount of time. This protects against ransomware, hackers and insider threats. When combined with NetApp E-Series storage, you have a best of breed, high-performance, short-term data protection repository that provides the fastest RPOs and RTOs in the industry. A compliant Hardened Repository configuration ensures protection of backup data against manipulation and meets the requirements for non-rewritable, non-erasable storage as specified by SEC 17a-4(f), FINRA 4511(c) and CFTC 1.31(c)-(d) regulations. The compliance assessment was done by Cohasset Associates.

Long-term immutability with S3 Object Lock on NetApp StorageGRID

NetApp StorageGRID provides enterprise grade geo-distributed S3 compatible object storage for long-term Veeam immutable data retention. S3 Object Lock API support guarantees data retention for a set period, preventing deletion, modification or encryption for complete availability against ransomware attacks and insider threats.

Key benefits

Veeam hardened repository with NetApp E- Series

NetApp E-Series is the ideal target for keeping short-term backups safe in a hardened, malware and hacker-proof immutable repository, preventing encryption and deletion by ransomware and malicious actors

NetApp E-Series accelerates performance, boosts throughput and increases density that is perfectly suited for modern enterprise data protection.

Long-term immutable archive on NetApp StorageGRID

StorageGRID allows you to establish data management policies that determine how data is stored and protected. When developing and enforcing policies, the object store examines a wide range of characteristics and needs, including performance, durability, availability, geographic location, longevity, and cost.

You can comply with regulations using a variety of features within storageGRID such as write once read many (WORM) retention with S3 Object Lock, access control policies, encryption and audit trails.
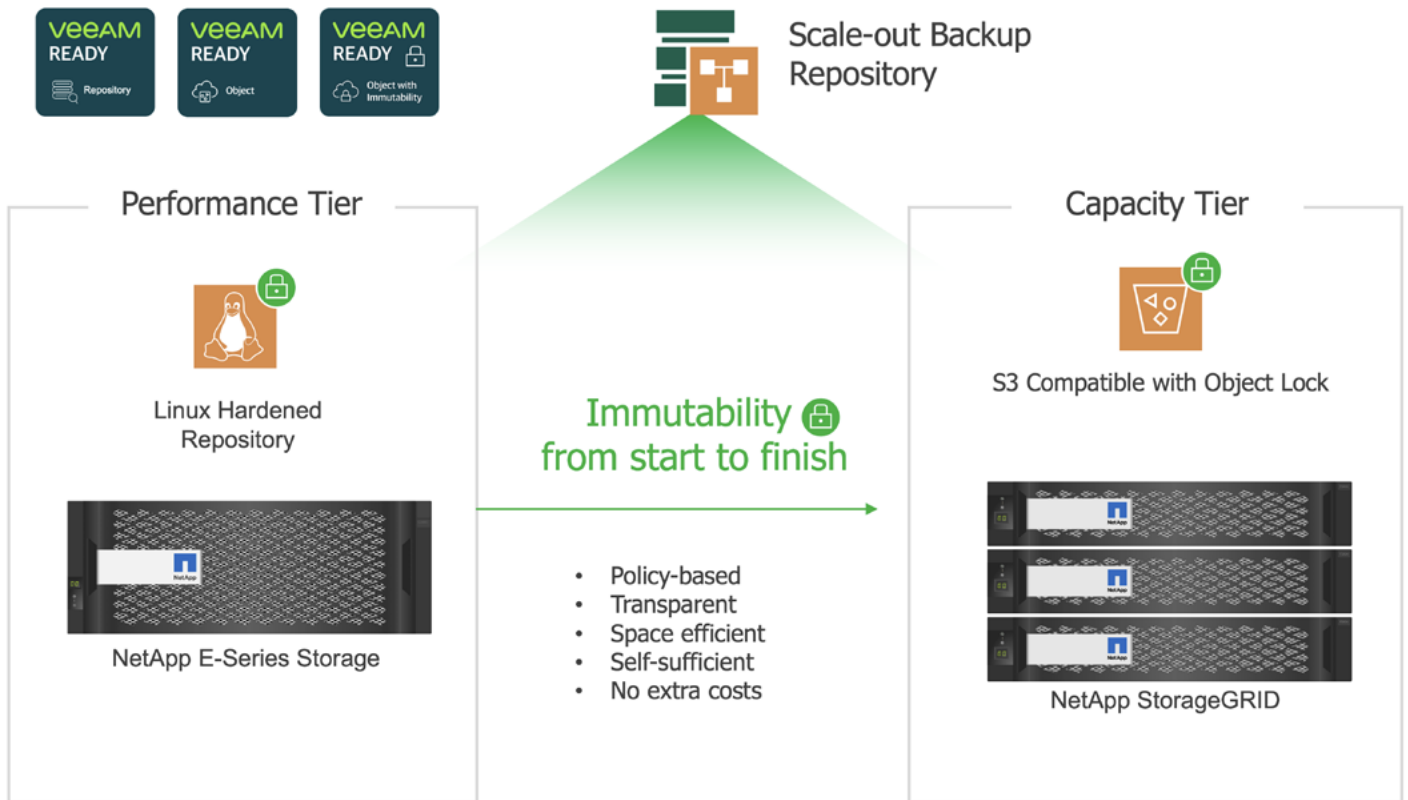
Scale out Backup Repository (SOBR) with NetApp

Conclusion

While Veeam® doesn't prevent ransomware, the NetApp and Veeam solutions for ransomware with advanced features native to the Veeam Availability Suite™ enables your organization to quickly and effectively restore critical data infected by ransomware to a known good state.

Learn more:
veeam.com

Download free trial:
vee.am/backup

About NetApp

In a world full of generalists, NetApp is a specialist. We're focused on one thing, helping your business get the most out of your data. NetApp brings the enterprise-grade data services you rely on into the cloud, and the simple flexibility of cloud into the data center. Our industry-leading solutions work across diverse customer environments and the world's biggest public clouds.

As a cloud-led, data-centric software company, only NetApp can help build your unique data fabric, simplify and connect your cloud, and securely deliver the right data, services and applications to the right people—anytime, anywhere. www.netapp.com