Protect Your Most Important Assets With a Data Vault

SOLUTIONS BRIEF

Self-service Data Protection with an Immutable File Share

THE CHALLENGE: MORE DATA, MORE THREATS, MORE COST

As enterprise data grows and spreads across sites, clouds, and users it becomes more difficult to protect the right data while keeping costs under control. Traditionally, protecting data with immutability has been a function of storage hardware even though it's a data management activity. This makes it difficult for users and teams to self-service their data for a variety of use cases: legal hold, building a ransomware recovery strategy, a safe space as a last resort for copies of backup data, long term data retention for storing data such as finalized projects, or cost optimized storage for snapshot protection. Traditional storage-centric approaches to data management cannot deliver the necessary data agility and ease-of-use across mixed infrastructure, multi-site environments to make these use-cases easy to deploy for administrators and users.

THE SOLUTION: AN IMMUTABLE SHARE, AVAILABLE ANYWHERE ON ANY INFRASTRUCTURE

A global file system built for the hybrid cloud, Hammerspace's data-centric approach allows you to serve and manage data independently from the infrastructure.

- Serve data at high-performance to any storage on any site
- Use standard protocols NFS, SMB, and S3
- Abstract data at file-level granularity
- Data virtualization separates the control plane (metadata) from the data plane (data) non-disruptively reading, writing, and moving data across sites

Use-cases that need long or short-term protection from any changes to the data can be solved easily with a file data vault – a safe space to put data that can be considered immutable. This safe space is a Write Once Read Many (WORM) protected directory or share that automatically sets the metadata of files to be readable but not allow any writes to occur. Additionally, because this data vault is served by the Hammerspace global file system, it can tier data across any storage infrastructure to be available to users working from any location or cloud as they would a typical global file share. With Hammerspace, protecting data with a vault is easy for users and administrators to self-service instant restores. In the event of a disruption to the primary storage system, users can immediately perform an instant restore of exports using the data from the latest desired backup without having to copy a single byte back to the primary storage system before using it. All modified data will be automatically stored back on the original storage system and the system can initiate a background, non-disruptive data recovery while all the data is in use.

Benefits

- **Reduce the pain of Legal Hold**
  - *Free data-on-hold from hardware dependencies*
  - *Reduce cost of legal hold*
- **Add additional protection to your Ransomware strategy**
  - *Roll back to the moment of attack*
  - *Instant data availability for fast recovery*
- **Keep your backup data in a safe place**
  - *Analytics describe details of backup data*
  - *Reduce backup licensing, appliances, servers*
- **Simplify your long-term data retention**
  - *Users self-serve protection of finalized projects*
  - *Optimize cost vs. performance if data becomes active*
- **Deploy snapshot protection globally**
  - *Increase Snapshot rate while reducing cost*

Key Features

- Global File System
- Write Once Read Many (WORM)
- Global Snapshots and Undelete
- Encryption with on-premises KMS
- Instantly restore exports

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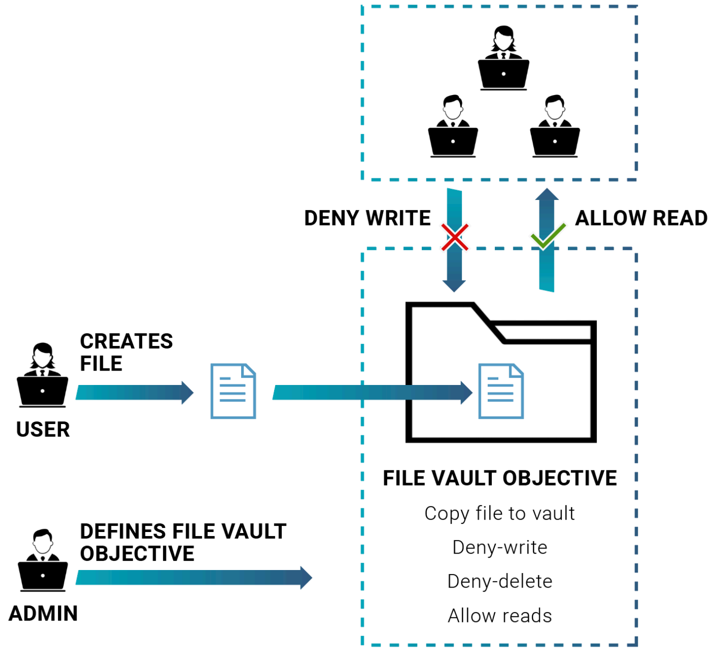

REDUCE THE PAIN OF LEGAL HOLD

Simplify the process of legal hold of file data by freeing it from the dependencies of specific storage hardware, reducing the cost of long term holds as hardware licensing, warranty and support only becomes more expensive over time. Hammerspace could be deployed as an appliance to perform a non-disruptive read-only assimilation of file data stored on NAS. That data can be copied into the cloud into a data vault protected by WORM data-lock to meet the requirements of legal hold. Once that data is in the cloud, the originating storage infrastructure can continue its normal life cycle. For additional protection of cloud data, object bucket versioning can be enabled to create two layers of immutability.

ADD ADDITIONAL PROTECTION TO YOUR RANSOMWARE STRATEGY

Use a deep snapshot chain to instantly recover from ransomware attacks. With Hammerspace, you can maintain 7 years of daily snapshots (up to 4095 snapshots per share) in a file data vault that are all deduped and compressed in the cloud separated from the storage and backup systems to increase resiliency. In the event of an attack, recover from the last healthy snapshot and make that data available anywhere through the universal global namespace to get up and running fast. All data can be accessed during the restore process as data is copied back to where it should be.

KEEP YOUR BACKUP DATA IN A SAFE PLACE

Storing deep snapshot chains in a file data vault paired with a global file system can also help protect backup data stored in the cloud. With Hammerspace that data can be analyzed to describe details of what types of data have been backed up using MIME type identification. Additionally, as backup data is centralized in the cloud, additional CAPEX/OPEX costs can be eliminated as software licensing, appliances, servers, and labor of managing remote backups become unnecessary.

SIMPLIFY YOUR LONG-TERM DATA RETENTION

As projects are completed, such as films or data intensive HPC runs, the results can be easily tucked away for long term data retention. With a data vault, users can self-serve their protection simply by placing a copy in a WORM protected share. Because Hammerspace handles all the data tiering on the backend, the cost is optimized as the data sits dormant and then moved to performance storage when the data becomes active again. Unique metadata attributes can be stored with data, identifying when the data was originally captured, when the data may expire or when the data should be deleted. Hammerspace is capable of recording thousands of custom metadata attributes to any possible use of the information.

DEPLOY SNAPSHOT PROTECTION GLOBALLY

Reduce the cost and increase the protection of deep snapshot chains in the cloud with a data vault that dedupes and compresses data while moving it off your expensive on-premises primary storage. Any data stored in those chains can be instantly made available across the enterprise through the global file system.

ABOUT HAMMERSPACE

Hammerspace hybrid cloud storage solves the siloed nature of the hybrid multi-cloud – by making data agile, instantly available everywhere, and flipping the cost model of storage on its head.