

Touchless, Fully Automated NAS and Object Data Management

Highlights

- **Machine learning metadata engine** optimizes data for performance and cost
- **Auto-tiering of live data** eliminates caching multiple copies of the same data across the infrastructure
- **Global namespace** virtualizes data and pools heterogeneous storage to simplify operations
- **Storage Optimization** thru dedupe, compression, and load-balancing across clusters
- **Scalable architecture** grows and shrinks to manage performance and capacity

Challenges

- **Integrating object storage** into existing infrastructure environment without disruption
- **Identifying hot and cold data** to optimize resources
- **Automatically and non-disruptively tiering data** using standard protocols
- **Reducing storage CapEx and OpEx**

Enterprises everywhere digitally transforming to enable data-driven decision making. They soon discover that the key to successful transformation is data agility – how fast a business can move from questions to answers.

To adapt, IT must adopt intelligent decision-making technology to help improve both the performance and the economics of the storage infrastructure, while enabling data users to safely self-service their data management.

Hammerspace is a complete solution, enables faster time-to-value for data by virtualizing and abstracting data from the infrastructure. Hammerspace intelligently manages data stored across storage silos to present **Data-as-a-Service**.

Metadata-as-a-Service

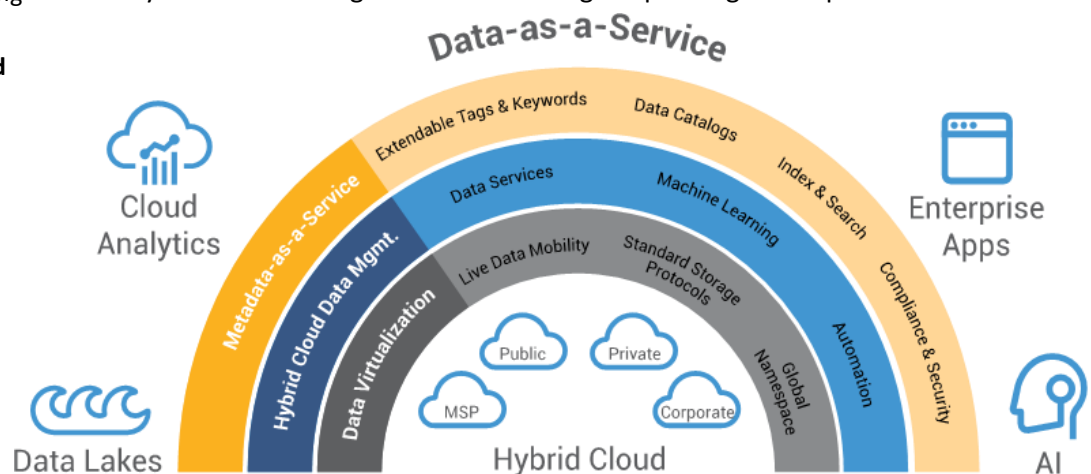
Metadata management through a service layer delivers global control of data, providing user-defined and programmable tags and keywords that work with any file system, NAS or object store.

Hybrid Cloud Data Management

Global data visibility and accessibility make it fast and easy to automate the optimization of storage resources, delivering auto-tiering of live data through machine learning, reducing the need for caching layers. Enterprise data services like snapshots, global dedupe, compression, and encryption, protect and optimize data across the hybrid cloud infrastructure.

Data Virtualization

By managing metadata separately from data, it becomes possible to make unstructured data appear virtually anywhere without copying it. Data virtualization is key to overcoming the challenge of storage silos, making data appear present across the hybrid cloud through an active-active geo-spanning namespace.



Machine Learning and Object Storage Improve Datacenter Economics

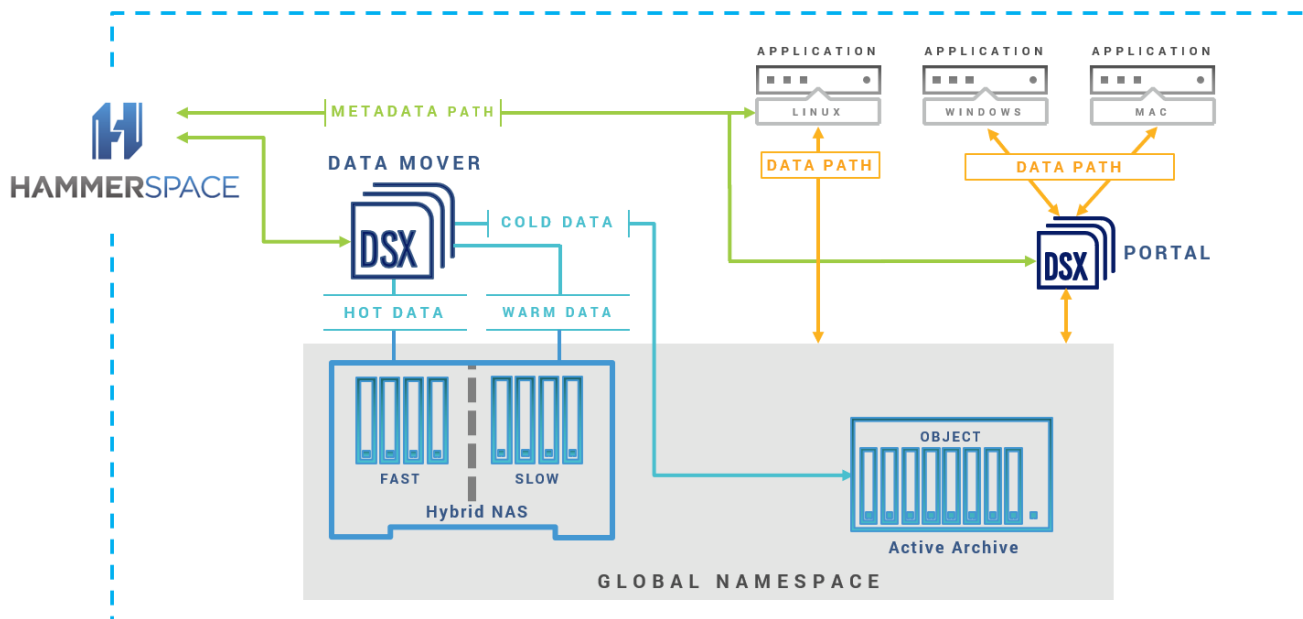
IT would love all data to be on high-performance flash NAS arrays, but that doesn't make economic sense for the ever-increasing amount of data that companies retain as it is too expensive to scale. Unfortunately, most enterprise applications are not ready for object storage or multi-tiered storage. Enterprise apps should not need to worry about which storage systems are available across the infrastructure.

Hammerspace machine learning data management for NAS and Object storage can tie these technologies

together. By monitoring metadata and the real-time performance of storage, measured at the application layer, Hammerspace machine learning metadata engine orchestrates the live mobility of data between all-flash NAS and S3 object storage without causing interruption or downtime. Automatically optimize and align the data center to business objectives, significantly reducing both CapEx and OpEx for storage infrastructure by improving the utilization of the available performance, protection, and capacity of investments; while automating many tedious data management tasks.

Data Beyond Storage

1. A **global namespace** virtualizes data to present a unified view of data to application workloads across heterogeneous storage resources.
2. **Machine learning metadata engine** observes the infrastructure, collecting telemetry and metadata from workloads and storage infrastructure, detecting hot and cold data to make intelligent data management decisions. Data is automatically load-balanced for performance and optimized for cost across all connected NAS and Object resources.
3. Hammerspace directs **DSX Data Services** to perform non-disruptive **live data-instance mobility** between storage resources on-premises and in the cloud, and are WAN optimized and handle NFS, SMB and S3 protocols.



About Hammerspace

Hammerspace is a software company dedicated to enabling fast and easy access to data across the hybrid cloud. Hammerspace is a hybrid cloud data control plane where data exists abstracted from storage and is available to any service, in any cloud or data center. By automating the management of data with metadata-driven machine learning, Hammerspace makes it easy to run more jobs faster and not get stuck in a silo again. To learn more, visit us at www.hammerspace.com