Run Cloud Analytics Using On-Premises Data

Highlights

- **Consume data-as-a-service** to create the agility necessary to run applications in any cloud while efficiently managing the entire data-estate

- **Data Catalogs** use metadata management to introduce agile information governance and cope with data sprawl

- **Compliance** to frameworks with metadata management policy-driven automation

- **Self-service data management** for easy access to on-premises data without disrupting IT

- **Index and search** with global visibility to find quality data, fast

Challenge

- **Data discovery** is challenged by poor metadata management can make it hard to find quality data

- **Data preparation and staging** can take too long, causing delays for analytic jobs

- **Data sprawl** slows down cloud analytics

- **Data silos** often require IT engagement to gain access to on-premises data

- **Complex collection of tools** don't integrate well and require special training

Enterprises everywhere are going through a digital transformation, leveraging IT technologies across all aspects of their business to improve their competitive agility. As a result, data is growing at an explosive rate as enterprises move from a process-defined world to a data-defined world. Data engineers and data scientists support their lines-of-business to make better decisions faster with cloud-based analytics and data services. The number one reason analytics jobs fail is that they took too long to run, and often the most time-consuming stage is finding quality data and staging it for the job.

As data operations teams struggle to gain better visibility and accessibility to data sets sprawled across many data silos, it takes longer to run analytics jobs, and the overall agility of the business suffers.

All data available on-demand – anywhere, everywhere, all-the-time

Accelerate the time it takes start data jobs by consuming **Data-as-a-Service**, a fast and straightforward approach to hybrid cloud data management, without the limitations of storage silos. With data-as-a-service, self-service all data management needs without the need to engage IT. Hammerspace takes the complexity out of finding and accessing data from any storage and with any data service – on-demand.

Fully automated data management with machine learning reduces the cost of the entire data estate and maintains high performance while making data concurrently live and available at any location. There is no risk of disruption since Hammerspace does not change the infrastructure or require reconfiguration of workloads.

Deploying and using Hammerspace is easy

All it takes to connect an AWS environment to on-premises data is to deploy a VM to host Hammerspace and point it at the NAS infrastructure. Hammerspace is non-disruptive to any storage system; it doesn't alter any data or hardware configurations making it a straight-forward addition that does not interrupt IT operations.

The out-of-the-box experience is semi-automated, connect Hammerspace to the network and the cloud environment to instantly project on-premises unstructured data onto the cloud. Built-in hybrid cloud data automation templates can guide the machine learning engine to optimize data mobility and traffic to feed cloud data services predictively and on-demand to start analytic workloads right-away.

Rethink the Hybrid Cloud

Serving up data-as-a-service is the best way to fully realize the value of running data workloads in the cloud. Data silos should not get in the way of maximizing and monetizing the full potential of company data. Hammerspace is the only solution that can easily accomplish this mission without adding complexity to the process.

HAMMERSPACE

Solution Brief

Solution

- Deploy Hammerspace to **quickly connect on-premises data** to cloud data analytic workloads
- **Start data jobs immediately** without copying the full data set into a staging area first, potentially saving days of preparation time. Faster time-to-value means automating and cutting down the data preparation time from days to minutes
- **Hammerspace is non-disruptive** to IT and the storage infrastructure while making all data visible and accessible to data operations teams
- **Find data faster** and make better choices about the data driving analytic results

Data Beyond Storage

The Hammerspace experience is lightweight and fast. The trick is to virtualize data, making it appear anywhere in an active-active geo-spanning global namespace; combined with live data-instance mobility to allow any data job to run on the cloud using any data set, regardless of the location of the site or silo where it resides. Machine learning automates all of the tedious data management tasks, creating a user-friendly experience.

Data operations teams can manage more data faster, free from silos using:

- **Data Catalogs** – Orchestrate data catalogs with metadata management to introduce agile information governance and cope with data sprawl
- **Hybrid Cloud Data Management** – Global data visibility and accessibility makes it fast and easy to feed data-hungry operations in any cloud
- **Metadata Management** – User-defined metadata can tag individual files to manage transformation and curation history for lineage management
- **Index & Search** – Finding data and evaluating its quality is critical to successful data operations. Global visibility and metadata management make this a fast and dependable operation
- **Compliance** – Use cloud analytics to identify content, populating extensible metadata to ensure governance through Hybrid Cloud Data Management
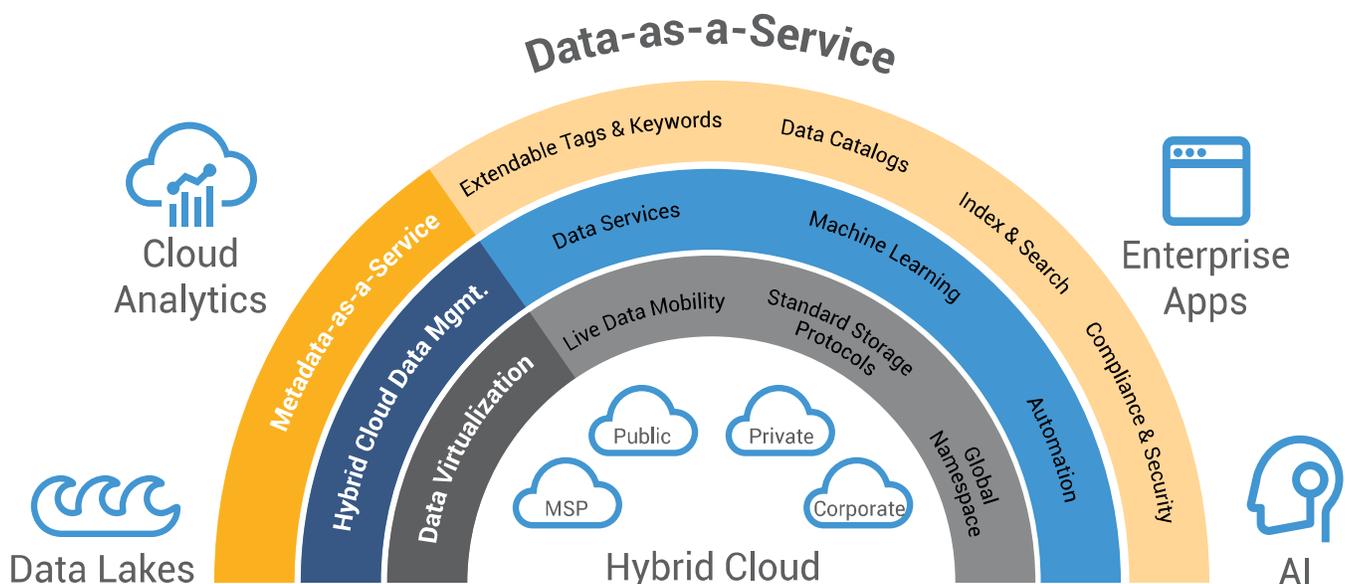
About Hammerspace

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

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Contact sales@hammerspace.com