

SOLUTION BRIEF

Focus on How to Use Your Data, Not on How to Manage It With a Single Integrated Solution That Is Both Scalable and Secure

Challenges

- Too many storage tools (cloud, tape, NAS, SAN) are causing confusion, inefficiency and putting valuable data at risk
- Data management solutions are often pricey and don't match the company's needs
- IT teams sometimes lack trust in their data storage and protection solutions

Highlights

- Consolidates data management needs into one global, protected solution
- Provides simple visualizations and analytics to more effectively manage data
- Empowers users to find and manage data no matter where it is stored

Solution

The combination of StorageDNA's DNAfabric with Western Digital ActiveScale™ cloud object storage is an integrated solution for data management and storage that remains scalable and secure regardless how large one's data may become.

Storing and indexing data is a complex task that becomes even more difficult as the sheer amount of data grows. IT solutions can become overbearing at times, and the number of tools needed to access just one piece of data is often inefficient and costly.

With teams becoming increasingly global, the need to be able to access any piece of data from any location in the world is higher than ever before. Oftentimes individuals will resort to informal and inefficient practices to find the information they are looking for. Without an easy solution to manage and disperse data, it becomes nearly impossible to guarantee the integrity of said data.

Too Much Data and Too Many Tools

Data continues to grow rapidly and this growth is not across a homogenous and managed storage environment. Instead, users are grappling with a number of storage options that range from individual hard drives, LTO tapes, nearline storage, primary storage and cloud.

To manage the data growth across a diverse set of storage options, users are deploying data management tools on a more ad-hoc basis, resulting in data environments that are largely unmanaged and poorly protected.

In addition, data management solutions are often rooted in old practices, with specific tools for each specific use case a team has. Teams often have one tool for data management analytics, one tool for data querying, and another tool for data upload. These tools often require specific members of an IT staff to assist, and thus the entire process which was meant to ease the flow of data becomes far too time intensive.

The need for a single integrated solution that merges all data management jobs, analytics, user management, and data protection into a simple workflow is greater now than ever before.

Centralize Your Efforts

Western Digital and StorageDNA have teamed up to provide an integrated solution that provides transformative data management and data decision capabilities. StorageDNA's DNAfabric product is perfect for managing data and combining nearly every imaginable data management need into one comprehensive, web-based interface. Western Digital's ActiveScale cloud object storage systems allow customers to easily keep up with rapid data growth and provides an on-premises and hybrid-capable cloud system that seamlessly extends existing storage repositories with massive scalability, outstanding levels of durability, and affordability. Together they enable IT organizations to reduce storage costs while allowing users and applications to seamlessly access data as normal.

Completely Cloud Enabled

With its support for both legacy disk storage platforms as well as modern WAN and cloud solutions, DNAfabric can support most data storage requirements. Data is synced in its native format, so that other data tasks such as transcoding, are able to access content at the source. DNAfabric also maintains a catalog of locally stored items, so that the amount of dependencies on the cloud and other storage solutions can be reduced for common tasks. With data integrity in mind, teams can implement pre and post scripts that can run common quarantine, deletion, and proxy needs.

Support for Both Structured and Unstructured Data

DNAfabric controller allows for user level management of all. The controller can scale with you and the amount of data your team has, and data security teams need not worry about consolidating their practices, as DNAfabric's data manager reports all data movement tasks, metadata statuses, and all actions taken from the controller. Since it is offered on a subscription model, DNAfabric is priced precisely to fit your team's needs. Teams can rest assure that they will only pay what is necessary to support the amount of data they are moving and indexing each month.

Where Does the Data Go?

Western Digital's ActiveScale is a performant cloud object storage solution that is ideal for use with DNAfabric. Gone are the days of content balancing, hefty data stack upgrades, and storage systems that become outdated as soon as they are put in place. ActiveScale scales with you and facilitates a "Data Forever" approach so that you'll never have to worry about falling behind.

ActiveScale can be grown to meet your storage requirements and helps to guarantee speedy rates of storage and access, at a delivery rate of up to 20GB per second. ActiveScale also prioritizes data protection and integrity, so that you never have to guess where your files are and whether or not you have the most current version. ActiveScale is also available as a "Pay-As-You-Grow" solution so that you constantly have the right amount of cloud object storage capacity to meet your current needs.

One Platform, Multiple Data Services

In the world of rapid data growth, distributed data pipelines, and growing storage options, DNAfabric is a new way to look at large scale data management. DNAfabric is an easy to deploy platform designed to address gaps in any data management strategy. It can be deployed without "rip and replace" efforts and provides a simple subscription model, offering numerous data management services. These services power flexible data movement, tighter data governance and improved data-decision making ability.

Drives Smarter Decisions for IT Managers and C-Level Executives

Current tools attempt at providing insights via IT style directory and utilization statistics. While these tools are "good enough" for basic enforcement, they highlight no real insights into how data is used, protected and scaled. DNA fabric's Data Visibility services is a data visualization toolset designed for C-level executives and heads of departments enabling real time tracking of data for improved provisioning, utilization, spending and protection.

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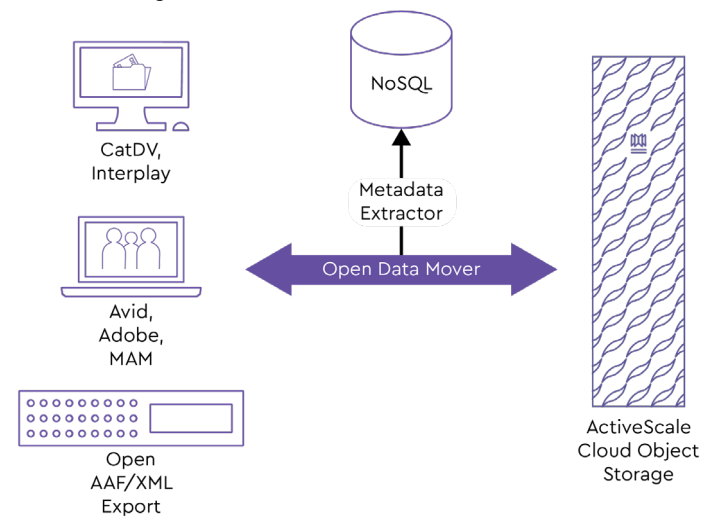
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Accelerates Local, Remote, and Cloud Transfers

DNAfabric is powered by data synchronization technology optimized for a number of deployment scenarios. DNAfabric accelerates local disk to disk transfers between hard drives, NAS, SAN storage. In this scenario it uses multi-threading, variable buffers, SSD caching to optimize transfers. Over remote distances, DNAfabric employs UDP acceleration with multi-threading to achieve the fastest throughputs. It can also optimize transfers to direct to cloud object stores (e.g. AWS S3™, Azure® Blob, Activescale and more) through multi-part upload and multi-threading.



Powers Hybrid Workflows for Backup, Disaster Recovery and Archive

With a multitude of data transfer options and flexibility to deploy across on-premise, remote or cloud instances, DNAfabric powers numerous workflows including backup, archive, DR, sharing and collaboration. It is perfectly suited to building hybrid workflows spanning multiple locations and cloud infrastructures.

Conclusion

Data management is a complex process storing assets with integrity, finding metadata, and maintaining performance and security. By combining StorageDNA's DNAfabric together with Western Digital's ActiveScale cloud object storage, all of these tasks are consolidated into a seamless, easy user experience that is both protected and performant. This unified solution allows teams to start focusing their time on how to use their data, not how to manage it. Together they enable IT organizations to reduce storage costs while allowing users and applications to seamlessly access data as normal.

