



SOLUTION BRIEF

Rethinking Backup and Long-Term Retention with Private Cloud Storage



Solution

ActiveScale™ object storage with Veritas NetBackup™ delivers a unified backup solution for physical, virtual and cloud environments that is simple to manage.

Highlights

- **Low TCO:** On-premises disk-based TCO rivals cloud and tape infrastructure for long-term active retention
- **Reduce complexity:** Consolidate multiple backup silos and simplify backup operations
- **Data readiness:** Restorations can be performed almost instantaneously without having to recall from vaulted tape
- **Data availability:** High durability and data integrity keeps data safe, while a global namespace makes data accessible anywhere, anytime
- **Self-protecting:** Automatically self-heals with no IT intervention or user impact during unplanned events
- **Predictable performance:** More parallel streams support read/write throughput helps achieve SLAs
- **Built-in disaster recovery:** Single copy of data remains safe and accessible from a full data center outage
- **Multi-workload:** ActiveScale is not just for backups, but for other storage use cases where requirements are a fit

Relentless data growth continues to pressure enterprise IT budgets and administrators to find more efficient and effective ways to store and protect valuable data. At the same time, they are being asked to help improve competitiveness by leveraging data for analytics.

Today's data center is a complex place, evolving over time to meet the needs of the business, whether from rapid business growth, mergers and acquisitions or autonomous departments choosing point solutions that must be managed as discrete functions. Rapidly growing data sets, fragmented infrastructure and storage silos lead to significantly higher management overhead and the inability to meet demanding service levels.

ActiveScale + Veritas Enterprise Backup Architecture

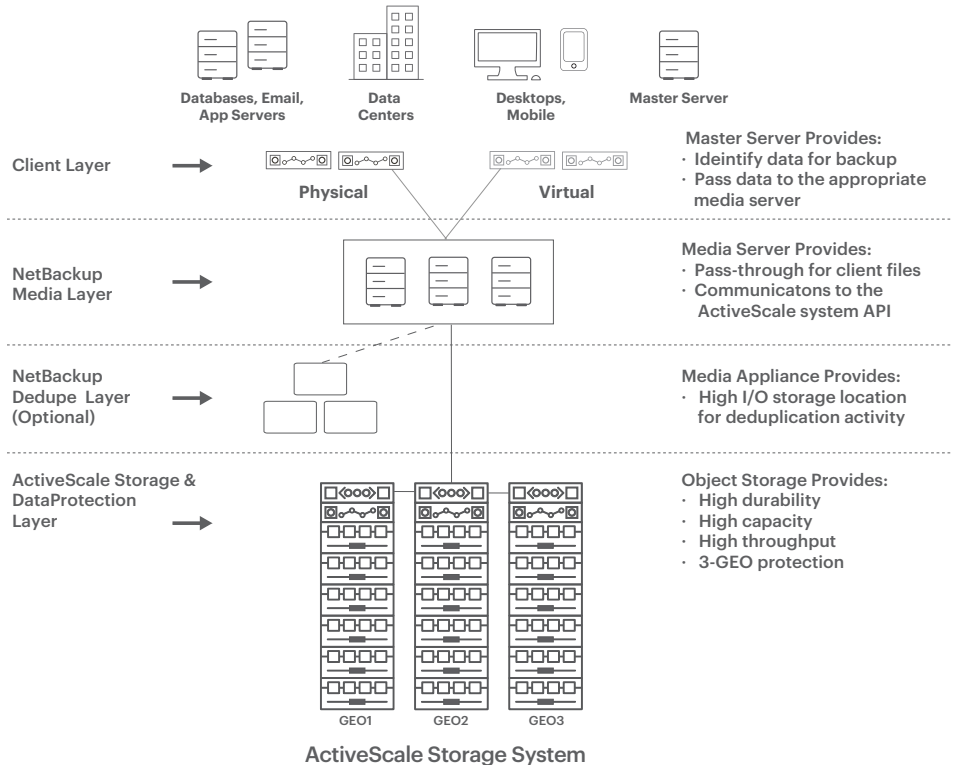


Figure 1. A unified backup solution

A Modern Approach to Data Protection & Management

Enterprises reluctant in moving to the public cloud believe they can't get the same level of security as their physical data centers. High latency, long backup windows, bandwidth costs and missed RTO objectives are barriers to cloud adoption. Larger organizations also require a single point of control and a uniform way for managing data protection across a diverse range of applications.

To address these challenges IT organizations are modernizing their backup and archive operations with a unified solution that can dramatically improve performance, flexibility and overall economics.

Essential attributes include:

- Data protection no matter where it resides
- Centralized, policy-based management
- Self-managing and self-protecting storage infrastructure
- Cost effective disk-based long-term data retention
- Leverages cloud models

Cloud-Scale Backup to Transform Your Business

The combined solution from Western Digital and Veritas delivers a unified backup solution for physical, virtual and cloud environments (see figure 1). By leveraging cloud models, IT organizations can better meet escalating service demands, while controlling costs and risks. Storage administrators can now direct data for long-term retention to the ActiveScale cloud object storage system that is fully integrated, qualified and supported in Veritas NetBackup over an optimized cloud connector.

Efficient backup and recovery operations are difficult to sustain with surging data growth. NetBackup lifecycle management policies automate the migration of data to an on-premises ActiveScale system for long-term retention. ActiveScale self protects and heals, making it a cost-effective alternative to legacy tape infrastructure.

Fast time to first byte is essential for any organization looking to leverage their information to improve operations and grow the business. Keeping more data on cost-effective disk-based systems like ActiveScale can eliminate many of the headaches associated with tape environments including slow and unreliable recovery, tape migrations, and managing a complex array of legacy hardware and software.

ActiveScale uses modern rateless erasure coding to deliver **extreme resiliency** with up to 19 nines durability and can survive a full data center outage when deployed in a 3-geo configuration. A global consistent view of data is maintained in spite of an outage and data access remains uninterrupted. Robust, data integrity checks occur automatically in the background to protect against data corruption over the long-term.

Simplify, automate and consolidate data protection infrastructure. The vast amounts of data created by an organization can overwhelm the most senior team of storage administrators. Combining NetBackup's automated data management with a self-managing and protecting ActiveScale system is essential to effectively protect, recover and leverage critical business data.

Conclusion

Backup and data protection methods are changing because traditional methods no longer provide the performance efficiency and scale to meet today's demanding business needs. The vast amounts of data created by an organization can overwhelm the most senior team of storage administrators. Simplify, automate and consolidate your data protection infrastructure with ActiveScale and NetBackup. Together, they deliver a unified data management and protection solution leveraging cloud models with the security, performance and flexibility of being in your data center. To learn more visit <http://www.wdc.com/dc-systems>

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