Western Digital.

Transforming the Data Center with Unified Cloud-Scale Data Protection and Management

COMMVAULT®

At a Glance

ActiveScale™ object storage with Commvault data protection and recovery software deliver a converged enterprise backup and data management solution for physical, virtual and cloud environments. The combined solution takes the complexity out of protecting and managing rapidly growing and diverse and disparate data sets. With just a few clicks, storage administrators can provision an ActiveScale on-premises cloud storage system
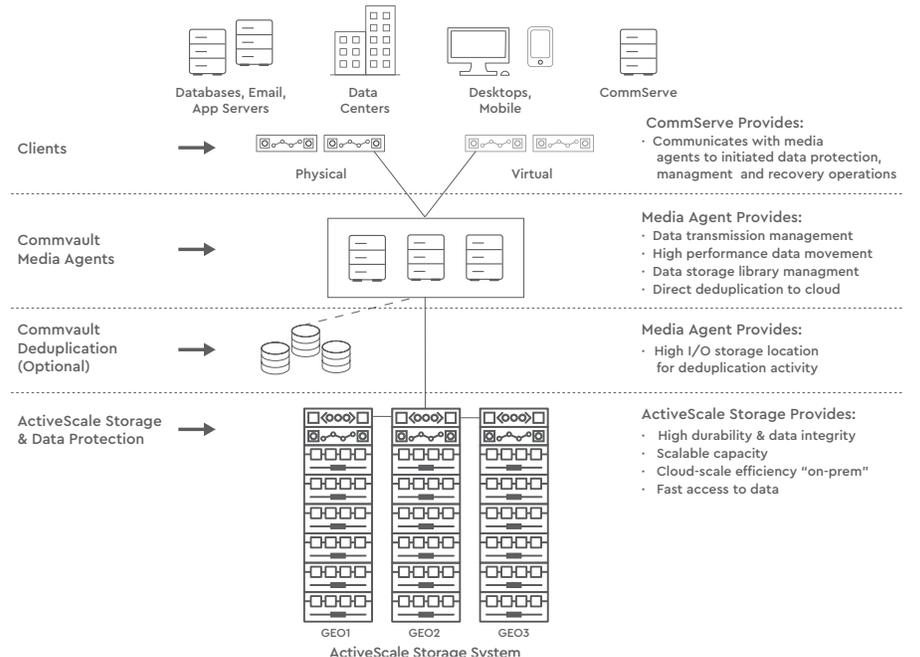
Solution Benefits

- Reduce operational complexity with a unified view of data no matter where it resides. Improve backup operations by consolidating disparate legacy data silos and tape environments
- Mitigate escalating storage cost leveraging direct deduplication to an on-premises ActiveScale cloud storage system
- Extreme durability and data integrity keeps data safe and online over the long-term
- ActiveScale self protects and heals without IT intervention or user disruption
- Storage capacity is easy to scale and manage – from 720TBs to more than 50PBs (raw)
- Native integration with Commvault setup wizards makes ActiveScale installation a snap

Massive data growth and tight budgets are forcing IT to find more effective and flexible backup strategies to meet increasing data protection, retention and performance requirements. Large and diverse data sets with shrinking backup and recovery timeframes are creating a huge challenge for storage administrators. It is not uncommon for data protection in fast growing enterprises to consist of multiple point products resulting from company mergers and acquisitions. While most of the products offer the requisite snapshot, backup, and recovery features, they form silos of data each with its own expensive legacy storage infrastructure. Not only are disparate systems more expensive to manage and maintain, they make it difficult for the organization to access and leverage the value in the data for the business.

Solution Overview

Western Digital and Commvault together help IT address the challenges of protecting and managing their applications and data. Commvault data protection and recovery software natively integrates with ActiveScale object storage systems to create a converged automated data protection solution with a single scalable backup target and a comprehensive view of all data no matter where it resides.

Western Digital + Commvault Enterprise Backup Architecture

ActiveScale systems offer durable, self-healing protection from data loss. Advanced erasure coding protects data with up to 19 nines durability. System capacity scales from 100s of terabytes to more than 50 petabytes in a single global namespace. Disparate silos of data and systems can be easily consolidated making backup and recovery operations faster and more reliable for applications, VMs, files, and endpoints. As enterprises adopt cloud models for some workloads, the combined Western Digital and Commvault solution can easily transform into a hybrid cloud giving IT the ultimate in data protection and flexibility.

Solution Details

Reduce Cost and Complexity with a single comprehensive view of all data, disparate data silos can be consolidated reducing management overhead and redundant hardware and software costs. Direct deduplication of data to ActiveScale can reduce the amount of capacity needed to store backup data by 10X or more depending on the type of data. ActiveScale's extreme durability (up to 19 nines) and 3-geo configuration makes it possible to reduce or eliminate the need for replication and tape copies for long-term retention.

Faster, and More Reliable Restores from Disk can save IT time and increase overall productivity. With more backup data stored on disk, IT can dramatically reduce, or eliminate, the need to recover data from tape. In most organizations data recovery is an urgent request. It could take hours or days to recover data fully from tape. Slow or unsuccessful recovery from tape can have significant impact on employee productivity, and worse if valuable data is lost, the impact to the organization can be significant.

Improve Backup Performance by consolidating backups on a single highly durable and scalable ActiveScale system. Managing disparate legacy backup targets or tape environments is complex and time consuming with a high potential for errors. Increasing data set sizes are forcing more disk-based backups to exceed their window, while tape-based backups fail due to media or handling issues. By keeping more backup data on disk, backups run faster and more reliably than the legacy approach. In addition, Commvault's data protection software reduces backup windows more than traditional backup software by streaming multiple backup jobs in parallel.

Easy to Install, Scale and Manage compared to traditional disk-based backup solutions. Smaller organization can be overwhelmed trying to put all the pieces together from multiple vendors. The Western Digital + Commvault solution makes it easy with and comprehensive and integrated approach. ActiveScale is offered as a modular or integrated configuration, both fully configured and ready to go – just add electricity and network connections. Storage capacity can be scaled from 100s of TB to more than 50 petabytes per cluster.

ActiveScale is certified with Commvault and natively integrated into its setup wizard, making discovery, provisioning and configuring, simple and fast.

Conclusion

Traditional storage and backup solutions can't handle the demands of today's data growth. Multiple disparate backup products are expensive to maintain and the silos they create make it difficult to leverage the value of data. Western Digital and Commvault together can help enterprises modernize their backup and recovery operations with a converged data protection, storage and management solution.

To learn more visit: www.wdc.com/dc-systems

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