

Transparently Extend Performance and Capacity with Intelligent Data Management



Highlights

- **Intelligent**
The Komprise Observer virtual appliance installs quickly without agents or dedicated hardware and scans existing storage to gain insight into data growth and usage.
- **Transparent**
Sitting outside the hot data path, Komprise transparently moves cold data without stubs or any changes to file-based access while users and applications continue to access data as usual.
- **Efficient**
Komprise frees up capacity and increases the performance of your primary storage by continuously and automatically identifying and moving inactive data to Western Digital ActiveScale object storage for efficient long-term storage.

Challenge

- Generated data is more than doubling every two years, while IT budgets stay flat
- Lots of unstructured data is cold, yet it is stored and managed on expensive primary storage
- Data needs to be preserved for longer periods of time and made available in real-time to more people
- IT organizations lack visibility across their storage silos
- Moving data across storage silos can disrupt existing users and critical applications
- Leveraging private cloud object storage can cut costs, but only if you know what data to move

Unstructured data is growing exponentially and managing this explosive growth within a tight budget is a challenge. Existing data management approaches were not designed to handle this monumental explosion of data, making it time to move to a more effective data management solution.

Komprise Data Management seamlessly extends existing primary storage with the affordable capacity, scale and fast retrieval of Western Digital's ActiveScale™ object storage while keeping all data available without changes to user or application access. Western Digital and Komprise have partnered to enable you to meet your business objectives on a "pay-as-you-grow" basis with outstanding levels of simplicity, scalability, resiliency, automation and affordability.

Simple to Install and Use

ActiveScale addresses the challenges of exponential data growth by delivering a fully integrated private cloud storage system that can be up and running in minutes. Komprise transparently integrates ActiveScale into your existing storage environment with analytics-driven automation. Radically simple to deploy and manage, Komprise is a virtual appliance that requires no expensive hardware, no complex configurations and no proprietary agents on the file servers. The Komprise Observer virtual appliance deploys quickly, instantly gives visibility across your storage even on petabytes of data, and manages data across your NFS, CIFS and object storage, without interfering with the primary data path.

Extreme Scalability

ActiveScale is based on a fully integrated modular architecture that can incrementally grow to petabyte scale in a single rack. Simply add scale-up modules to increase capacity. Pair this with the on-demand scale-out simplicity of Komprise—which allows you to add more Observer virtual appliances as the amount of data managed grows and alerts the administrator when additional Observers are needed. Komprise has no centralized bottlenecks, agents, or servers that limit scalability and high-availability is built-in.

Zero Disruption

Leveraging archive capacity no longer means you need to disrupt users or change their access. With Komprise, your end users and applications see and get immediate transparent access to the moved data as if it is still there on the original storage without any changes. Komprise delivers file-based NFS and SMB/CIFS access to data stored as objects so there is no paradigm shift. It leaves the active data path unchanged so access to hot data sees no performance degradation, while access to the moved data is transparent.

Solution

Western Digital ActiveScale object storage system and Komprise combine to create a complete data management solution for large-scale business and technical data environments. The combined solution provides the extreme scalability, performance and economics of object storage with intelligent automatic policy-based data movement and management to bring together the best of both worlds. This transparent private cloud tiering enables IT organizations to easily reduce storage costs while allowing users and applications to seamlessly access all data as normal.

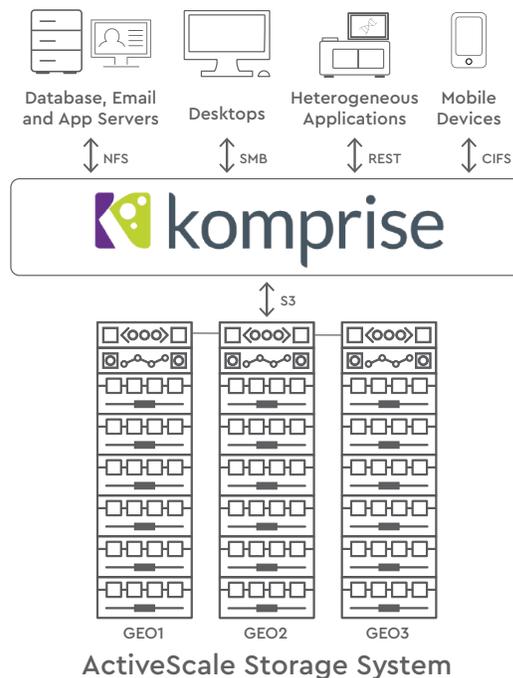
Modern Scalable Architecture

Data management has been hard to adopt and does not scale to meet today's massive data growth. Komprise software utilizes a shared-nothing grid architecture that grows on demand and allows you to handle today's massive scale of data with intelligent automation while taking advantage of Western Digital ActiveScale's fully integrated modular architecture.

Private Cloud for Increased Storage Efficiency

With data retention times increasing and more frequent use of archive data across the company, IT must have confidence that data will be readable throughout its long lifespan. Komprise ensures data will be accessible while ActiveScale delivers petabytes of capacity that require minimal IT support to manage. ActiveScale system's durability, performance and cloud-scale efficiency make it ideal for consolidating tiers of storage, including tape. Advanced erasure coding enables up to 19 nines durability, while proactive data integrity checks and self healing ensure that what goes in, comes out. For the most demanding environments, a system can be deployed across three geographic regions to ensure data remains fully protected and accessible in the event of a full data center outage

Western Digital + Komprise Reference Architecture



Compelling Total Cost of Ownership

Combining the unique, powerful and complimentary capabilities of Komprise and ActiveScale delivers an integrated system that rivals the scale of traditional cloud infrastructure at a lower cost for significant capex savings. The combined solution delivers breakthrough cost and simplicity allowing your IT resources to be directed to activities that generate greater value for the business.

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

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