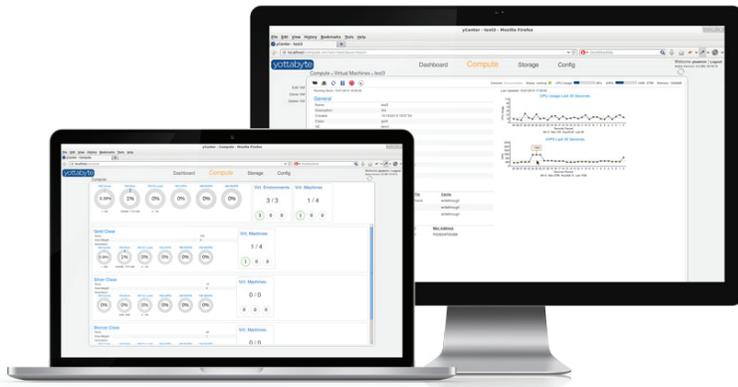# Lock up your data with yStor

Create a real-world archiving solution with yStor

yStor presents a new approach to data archiving that enables low-cost, long-term storage without compromising accessibility or security. With a SAN-free distributed file system, yStor eliminates scalability limitations and creates an active archiving solution that maintains data integrity while ensuring continued accessibility.

Low cost for long term

With legacy storage architectures, administrators must constantly balance the need for long-term storage against the cost of that storage and the availability requirements for the data. Tape archives are relatively cheap, but slow and cumbersome during retrieval. Disk is fast, but expensive and - in legacy environments – limited.

yStor creates a platform that rises above these limitations. A yStor solution can incorporate any type of available storage - from flash to cloud - into the same file system. This presents all data in a unified namespace, which makes data easier to find and faster to access. Additionally, this allows yStor to extend core features like deduplication, replication, and encryption to every storage type regardless of location.

With yStor 2.3's modular scalability, storage can be added at any time – in any place – and immediately allocated to the appropriate tier. This ensures that data and applications are stored in the most cost-effective way with no need to compromise.
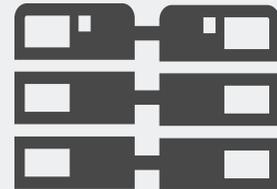
Key Benefits

Complete
yStor is delivered as a complete storage solution designed to work with what you already have. We don't upsell you to get the features you really want and don't make you buy a SAN or expensive appliances. Everything you need, from data protection to management is included in one download and managed through one console.

Elastic
yStor 2.3 creates an elastic, distributed storage platform that automatically adjusts when new resources are added. No more over-provisioning. No more capacity planning.

Scalable
yCenter creates an elastic, distributed platform that automatically adjusts when new resources are added. Because data protection is integrated into the datacenter software, your data protection solution scales-out along with your environment.

Intelligent Storage

yStor 2.3 provides an intelligent storage platform that monitors how frequently and from which location your data is accessed, and then migrates the data to the appropriate tier. Archived data that is accessed less frequently can be targeted for slower (and cheaper) cloud storage, while "hotter" data is moved to better performing tiers. Because all tiers are part of the same file system, your data is location agnostic and transparent to end users.

Data Availability

The availability of archived data is a limiting factor for most archive methods. yStor is built on a distributed file system that provides seamless access to archived data while maintaining the cost and security benefits of traditional archive methods. Because deduplication is a native feature in yStor, data is stored in one location while metadata is synchronized across all sites. This maintains data availabilty while still maximizing bandwidth and storage resources.

Automatic Replication: distributed facilities can handle their local storage needs with local appliances, but all data is automatically replicated and synchronized across any cloud architecture for long-term retention and availability across the organization for immediate retrieval.

Local Caching: For geographically dispersed infrastructures, data can be cached at each location to optimize access times and minimize bandwidth usage for popular content.

Easy to Find: Users never again have to search hundreds of directories or disks to find what they need. yStor's Content Addressable Storage (CAS) enables data retrieval based on content, not storage location.

Seemless Cloud

yStor enables direct integration with cloud storage providers, not through an optional plug-in or gateway, but directly through the yStor file system. This extend deduplication functions into the cloud while providing an extremely low-cost storage option.

Features

- Complete hardware abstraction
- Scale-out architecture
- Centralized management
- SAN-free architecture
- Multi-protocol support - CIFS, NFS, web
- Flexible disk configuration
- Managed file transfer
- File change detection
- Live data deduplication
- Data retention policies
- Cloud-based file access
- Volume snapshot synchronization
- Content delivery networks

Next Steps

Visit us at *www.yottabyte.com* to download an evaluation copy of yStor Community Edition today.