

Better Data Backup for Power Protect Data Domain

Lyve Cloud, Seagate Systems, and Dell Technologies Power Protect Data Domain offer data mobility, deduplication, and multitenancy in private- or hybrid-cloud environments to ensure proven data security.

Challenge Summary

Data backup is essential for modern storage systems. Managing and protecting backup data can be a complex undertaking that leads to strained IT resources and prevents effective data use. To meet the needs of today's business environment, companies need an agile, secure, and reliable solution that can scale up backup storage and prevent data duplication.

Benefits Summary

- Deduplicate data with Dell's Power Protect Data Domain
- Centralize fragmented backups into a cloud-agnostic platform
- Prevent unauthorized backup data access, deletion, and manipulation that impacts data integrity
- Maintain operational simplicity to reduce administrative and operational costs

Administering backups, enabling data deduplication, and increasing efficiency has never been easier. Lyve™ Cloud, Seagate® Systems, and Dell's Power Protect Data Domain offer a complete solution to protect data, increase data mobility, reduce overhead costs, and seamlessly move business-critical data where you need it, when you need it most.

The International Data Corporation (IDC) estimates that by 2026, the sum of all data in the world will be in the order of 221 zettabytes (one zettabyte is 10^{21} bytes). Enterprises and businesses across the globe face major challenges when it comes to backing up and protecting this data. Managing massive backups can increase overhead and exhaust complex IT environments while this siloed setup can limit data mobility and complicate IT budget optimization. On top of that, compliance, auditing, and backup testing may require substantial expenses with different requirements for each environment.



Data duplication becomes another problem—causing an ineffective use of budget and productivity, and a weakened use of data. Eliminating duplicate copies of data improves storage usage, lowers capital expenditure, and reduces the overall amount of storage required for data. On the other hand, ransomware attacks are getting more aggressive, targeting backup data, causing substantial damage to any business. An unreliable backup storage solution puts your organization at risk while downtime and data loss stall operations. Enterprises need an intelligent, holistic solution that provides agile, secure, and reliable backup storage scaling.



Solution Approach

Organizations need a storage solution that enables the frictionless movement of data while supporting backup and archive capabilities. Lyve™ Cloud is S3 compatible, enabling you to truly secure your repository and prevent obsolescence. Lyve Cloud also works with all major backup software vendors (so you won't be required to abandon your current backup solutions) and reliably restores in any environment without additional costs. Paired with Seagate's included service—Tape Migration and Storage—any on-premise backup disk and tape systems can be migrated into the cloud. With Lyve Cloud, you can:

- Centralize your fragmented backups into a cloud-agnostic platform
- Store backup data at the metro edge to increase speed of recovery in the event of disaster
- Rely on Lyve Cloud object storage to manage backups, saving time and resources

Your data is important to us and that's why we adhere to the most stringent and current security features. When it comes to protecting your data, Lyve Cloud ensures unauthorized backup data access, deletion, and manipulation integrity challenges are prevented. Our data encryption at-rest and in-flight promotes world-class 24x7 data security. And our object immutability prevents stored data deletion and alteration, ensuring backup recovery at all times.

Seagate Systems

On top of Lyve Cloud, Exos® CORVAULT™ is a new and uniquely intelligent category of self-healing, mass-capacity block storage designed to deliver hyperscale efficiencies, rapid deployment, streamlined data orchestration, and reduced human intervention for data center and macro-edge environments. CORVAULT complements Lyve Cloud as an on-premise storage solution when building out a hybrid, multicloud strategy. It's an ideal foundational storage system, delivering the highest efficiency and performance with minimal management overhead. CORVAULT is often combined with software-defined storage to provide enterprise-wide storage services. Integrated with Dell Data Domain, CORVAULT provides a compelling storage solution that delivers value, performance, and data protection for your backup storage needs.



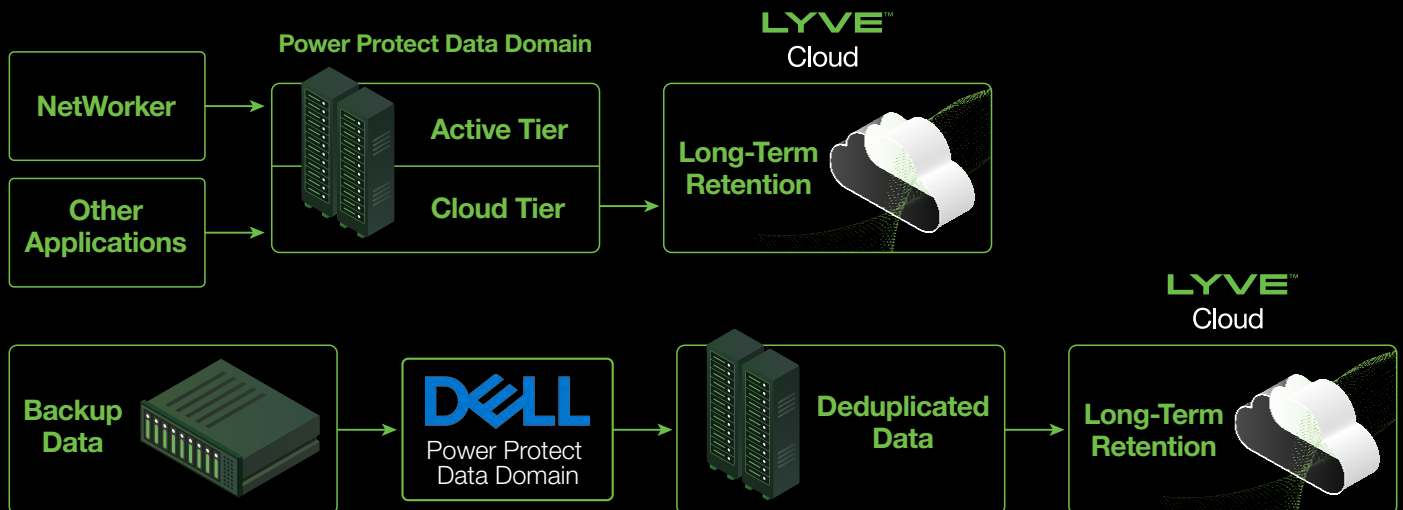
Dell's Power Protect Data Domain

Dell's Power Protect Data Domain is an intelligent system that works hand in hand with Lyve Cloud. Power Protect Data Domain provides agility, security, and reliability to deliver high-speed and cloud-enabled storage for backup, archive, and disaster recovery. Power Protect Data Domain integrates both backup and archive data on the same infrastructure—allowing greater consolidation—by eradicating silos of backup and archive data. On par with Seagate's value for simplicity, trust, and efficiency, Power Protect Data Domain enables Lyve Cloud to be a better backup solution. With Power Protect Data Domain, natively tier data to a public, private, or hybrid cloud for long-term data retention. Data Domain Cloud DR (DD Cloud DR) also allows enterprises to copy backed-up virtual machines from their on-premises Data Domain environments to the public cloud.

Power Protect Data Domain is known for its ability to achieve variable length deduplication to ensure data usability. This simple and effective solution reduces backup and archive storage requirements by up to 55 times. Power Protect Data Domain will deduplicate data during either the backup process or archive process, and the strategic placement of deduplication maximizes performance while minimizing storage requirements. Deduplicated data can be stored on-premise for immediate restoration, long term on disk, or replicated over the WAN to a remote site in the cloud for disaster recovery operations or to consolidate backups to a central location. This method is increasingly useful when it comes to eliminating the need for tape-based backups and consolidating tape backups to the cloud. Plus:

- Provides multi-tenancy for data protection in a private or hybrid cloud
- Offers the flexibility of DD OS, which enables DD to be the only protection storage to support backup and long term retention in the cloud via cloud tier functionality
- Maintains operational simplicity via DD OS to reduce administrative and operational costs

Dell Technologies Power Protect Data Domain supports Lyve Cloud's mission to adhere to the greatest security certifications. Power Protect Data Domain incorporates end-to-end data verification to confirm the file system meta-data integrity, user data integrity, and stripe integrity. Backup and archive data stored on DD OS can be protected with encryption performed inline before data is written to its future source. DD OS inline encryption uses RSA BSAFE FIPS 140-2 cryptographic libraries to deliver a robust encryption key for the entire enterprise.



Total Solution

Lyve Cloud, Seagate Systems, and Power Protect Data Domain, protect and backup data. Power Protect Data Domain will make sure your data is properly archived or backed up to Seagate Lyve Cloud S3 Repository. Lyve Cloud enables multicloud freedom and simple TCO structures with an emphasis on security shown through ISO 27001, SOC type 2, and HIPAA certifications. Data Domain can then integrate with Seagate Systems like CORVAULT to enable a hybrid-cloud environment. Plus, Dell Data Domain supports seamless integration to and from the cloud with stringent security certifications like FIPS 140-2.

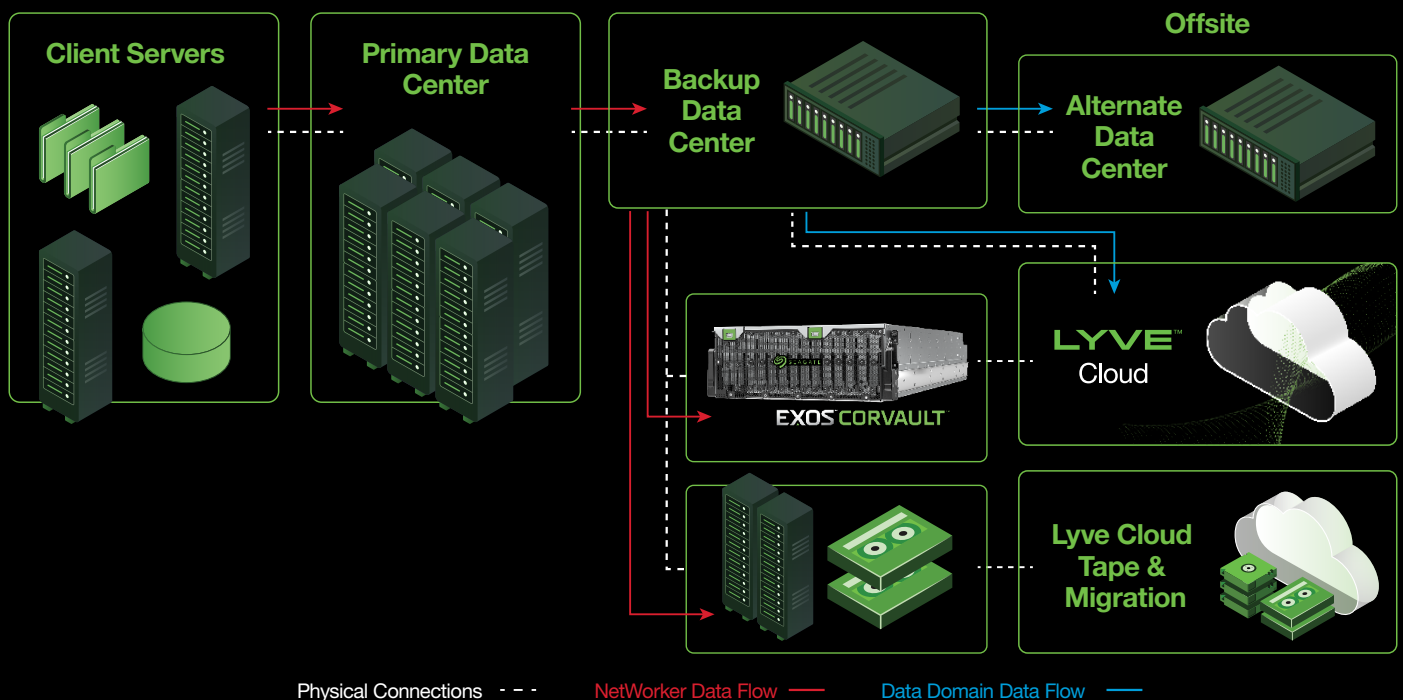
With Lyve Cloud, complex IT budgets and overhead are reduced as Seagate takes care of your IT environment for you. Top it off with Power Protect Data Domain to properly protect backup data and continue to work with your data whenever and wherever you need it.

Data duplication causes organizations to use and pay for more data than they need while reducing productivity spent figuring out what to do with the excess data. Power Protect Data Domain deduplicates data residing in Seagate Systems or Lyve Cloud's S3 content repository to create a solution that has your budget in mind, while increasing productivity and data usage.

Features & Benefits

- Deduplicate data with Dell Data Domain
- Centralize fragmented backups into a cloud-agnostic platform
- Prevent unauthorized backup data access, deletion, and manipulation that impact data integrity
- Maintain operational simplicity to reduce administrative and operational costs

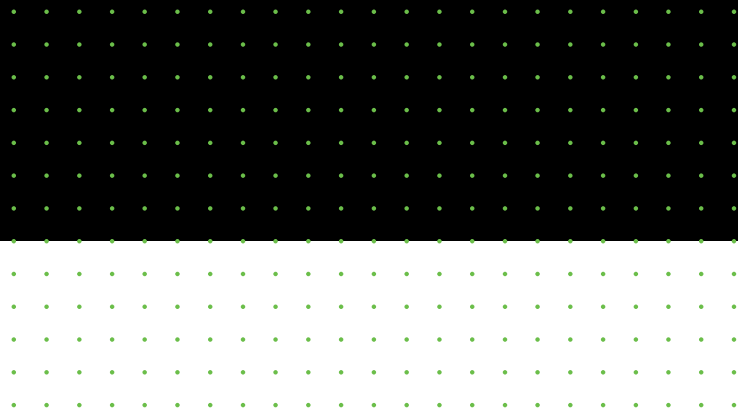
Dell Technologies Power Protect Data Domain and NetWorker



In Conclusion

The combination of Lyve Cloud, Seagate Systems, and Dell Technologies Power Protect Data Domain unlock new potential for your backup data repository. And when layered with Dell Technologies NetWorker, data and applications are protected across environments...from core to edge to cloud.

Searching for a solution that backs up and archives data, prevents ransomware attacks, reduces IT and overall storage costs, and removes duplicated data? Seagate Lyve Cloud smart SaaS storage solution, Seagate Systems, and Dell Technologies Power Protect Data Domain offer the comprehensive solution that solves your backup and archive storage needs.



Ready to Learn More?

Visit us at www.seagate.com

seagate.com

© 2023 Seagate Technology LLC. All rights reserved. Seagate, Seagate Technology, and the Spiral logo are registered trademarks of Seagate Technology LLC in the United States and/or other countries. Lyve, Exos, and CORVAULT are either trademarks or registered trademarks of Seagate Technology LLC or one of its affiliated companies in the United States and/or other countries. All other trademarks or registered trademarks are the property of their respective owners. Seagate reserves the right to change, without notice, product offerings or specifications. SB562.1-0223US



SEAGATE