Brochure

Enhance data protection

HPE Storage and Commvault Software

Hewlett Packard
Enterprise

Enterprise IT organizations are challenged by accelerating data growth and increasing reliance on the data. This requires a fundamental rethinking of how data is protected and accessed. HPE StoreOnce and Commvault® software deliver an integrated, end-to-end data protection and rapid recoverability solution to enhance business continuity and resiliency.

Not every data and application within the enterprise has the same criticality—a "one-size-fits-all" model for data protection doesn't work anymore.

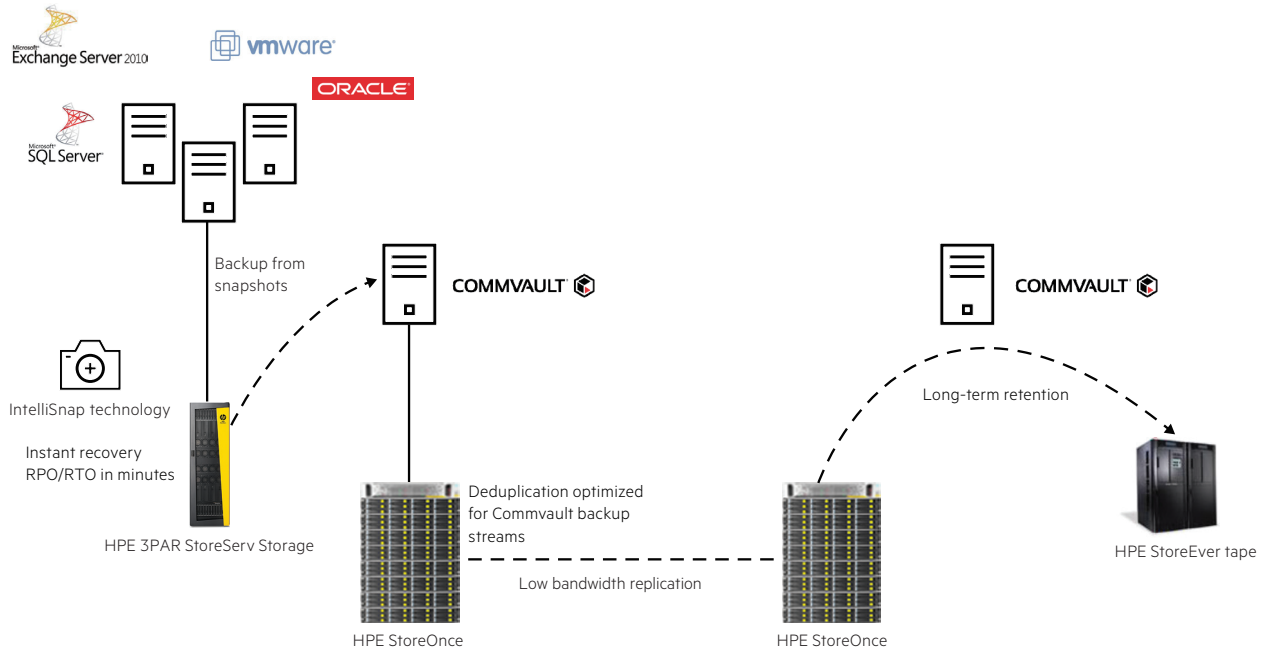
As you strive to stay competitive, 24x7 operations are the new norm and the tolerance for downtime is rapidly diminishing. Service-level agreements (SLAs) and uptime requirements are very stringent, forcing organizations to modernize protection and retention processes to align with business objectives. At the same time, rapid data growth, expanding virtual server deployments, and budgetary pressures are further complicating today's legacy backup and recovery methods. These dynamics, compounded by demands for faster, easier recovery, are putting an increasing strain on already beleaguered data protection processes—and slowing down IT transformation initiatives.

The combination of HPE 3PAR StoreServ, HPE StoreOnce system, and Commvault software delivers Tier 1 application resiliency, reliable data protection, enhanced data recovery, and complete lifecycle data management to improve operational efficiencies.

A service-centric data protection approach

Doing business in the modern world requires uninterrupted service for end users and customers. Data protection is no longer just about backing up and restoring data, but also about recovering business applications and restoring critical business services for users. IT organizations need to shift from an infrastructure-centric view to a more service-oriented approach to data protection. Implementing a tiered data protection and recovery strategy is fundamental to modernizing data protection.

HPE and Commvault—Integrated data protection



Tiered data recovery strategy
A tiered data protection strategy includes three steps.

Step one
The fastest way to recover data is through snapshots. Leverage snapshots to create application-consistent, point-in-time copies of data.

Step two
Augment snapshot-based backups with an external disk-based deduplication solution and/or tape for increased restore points, as well as for long-term retention.

Step three
Align different applications with the tiered protection strategy and manage a complete data lifecycle for application data.

HPE StoreOnce enhanced security features keep your backups safe

- Encrypts data in-flight and at-rest for greater security
- Makes erased data irrecoverable using secure data shredding
- Checks online data consistency for efficient validation

Commvault software manages operational security

- Provides user- and task-based access controls
- Allows management of all assigned systems with a single user ID
- Integrates with Active Directory

Delivering the shortest SLAs for critical applications

Application-integrated snapshots

Organizations using traditional methods for data backup have two choices. First, backup all data but exceed backup windows because of the sheer volume of data. Second, backup a subset of data to meet backup SLAs and risk exposure to data loss. Either way, it's a compromise.

Growing data volumes are driving organizations to adopt rapid, highly efficient storage snapshots as a preferred means of protecting both physical and virtual applications as a vital first line of defense, while traditional streaming backups are used for longer-term retention. However, storage snapshots and data protection operations are too often fragmented across different tools, creating inefficiency.

Commvault software technology unites complete data protection lifecycle management with primary and secondary tiers of HPE storage. The integration of IntelliSnap® technology with the native HPE 3PAR StoreServ snapshot engine provides consistent point-in-time recovery copies for enterprise applications while connecting hardware snapshots into the rest of the data protection process without the need for complex scripting. From the hardware snapshot, IntelliSnap software indexes the contents, and selectively vaults data to the HPE StoreOnce backup device for longer-term retention.

Using the HPE 3PAR StoreServ Priority Optimization, storage administrators can control and balance the distribution of array resources across other workloads that leverage snapshots. Snapshots of the production database used for analysis, backup, and development purposes can be run with an appropriate I/O priority using the Quality of Service feature so that the production applications are not affected during these auxiliary operations.

Rapid recovery when you need it

For applications that have very low tolerance for downtime, rapid recovery, and rollbacks from snapshots provide the ideal solution. IntelliSnap technology unites a broad range of application awareness with the HPE 3PAR StoreServ snapshot engine to provide reliable recovery of complex applications such as Microsoft® Exchange, Microsoft SQL Server, Oracle, etc. Application-aware protection includes auto-discovery features that update protection coverage automatically when changes are made to an application environment. Protection is also hypervisor-aware and includes auto-discovery of virtual machines with automatic policy-based snapshot protection. The integration also allows you to meet demanding business-critical application SLAs with scalable protection for recovery point and time objectives (RPOs and RTOs) of minutes, and enables accelerated application-level recovery with granular protection and retention options.

Saving storage costs while reducing backup times

Growing data results in a growing backup footprint. Backing up all the data in a timely manner within stipulated backup windows and meeting recovery SLAs is a challenge by itself. Adding corporate-mandated retention requirements drives up the cost of data protection along with management complexities.

While snapshots provide the first line of defense, augmenting your protection with external backups provide more restore points, longer retention times, and mitigates risks resulting from corruption or storage array failure. Deduplication and high-performance backup and recovery is key to controlling the data footprint and providing comprehensive protection.

HPE StoreOnce backup and Commvault software

HPE StoreOnce backup is a highly scalable and high-performance disk-based deduplication solution designed to lower your backup footprint while delivering industry-leading backup and recovery speeds to meet or exceed SLAs. Once the snapshot of the application is created on primary storage, Commvault software can backup those snapshot images to HPE StoreOnce system for further protection.

HPE StoreOnce deduplication is designed to extract even greater deduplication efficiencies for backup streams generated by Commvault software. That means you can store more data on disk without adding any extra capacity, giving you more restore points for recovery.

HPE StoreOnce supports network attached storage virtual tape library modes for Commvault software to store backup copies. Alternatively, if you have data sets such as encrypted data files that are less suited for deduplication, you can store those on non-deduplicating share on HPE StoreOnce. The result is that you save on system resources while delivering faster backups and rapid recoveries. This gives you more flexibility to balance storage efficiencies and performance.

Reliable backups

HPE StoreOnce offers resiliency features and automation to handle failovers and enable backups run to completion in spite of any unexpected hardware failures. You can rest assured that data is protected to keep your business running and meet aggressive data protection SLAs.

Faster recoveries and automated disaster recovery

The sole purpose of backups is to recover data quickly when it's needed. But it's not just about data recovery—business-critical applications need to be restored quickly as well. With HPE StoreOnce, data restores are almost as fast as backups, and Commvault software enables application-aware recoveries to further reduce downtime. For disaster protection of backup copies, the solution enables you to replicate backups to an HPE StoreOnce backup at a secondary location using low bandwidth replication, saving precious network bandwidth and costs associated with it. Once replicated, Commvault software enables you to restore data from either local or remote backup copies on HPE StoreOnce.

Long-term retention of data on tape

If you need to retain backups for extended periods of time to satisfy compliance requirements, there is no better medium than tape. Commvault software is integrated with HPE StoreEver tape libraries to enable seamless archiving and retrieval of backups. With features such as WORM, encryption, and proactive monitoring of media and drives, HPE StoreEver provides the right balance of economics, durability, and reliability needed for long-term retention of backups. Commvault software complements HPE StoreEver with sophisticated tape lifecycle management, including the ability to inventory and track tapes that are sent offsite for long-term storage.

Conclusion

As you continue on your IT transformation journey, data protection and recovery are a critical component of modernization initiatives. One-size-fits-all doesn't work anymore. It's important to pick a data protection strategy that aligns with your business objectives.

HPE is a trusted partner to help you meet your goals. HPE 3PAR StoreServ, HPE StoreOnce backup, and Commvault software backup software delivers end-to-end data protection to safeguard your data and improve business resiliency.

Learn more at
hp.com/go/burasolutions
commvault.com

HPE Backup Services
Having the right data protection strategy and protection of mission-critical applications is a critical component of every IT infrastructure. HPE Services has the strategic and technical know-how to design an effective backup and recovery strategy to align data protection with business goals. HPE Services can evaluate and modernize your current backup, recovery, and storage systems to enhance data protection, reduce risk and lower your overall operational costs. For more information, please visit **hp.com/services/storage**.

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