COMMVAULT®

Commvault® IntelliSnap® Technology: Makes Snaps Work

► HIGHLIGHTS

Commvault IntelliSnap technology harnesses the power of array-based snapshots to accelerate backup and recovery:

1 **Modernize Data Protection and Recovery**
   Converge application aware backup and snapshot management in multi-vendor storage environments.

2 **Maximize the Value of Hardware Investments**
   Eliminate scripting and automate application aware snapshot and recovery operations across a wide range of storage platforms.

3 **Reduce Risk**
   Eliminate multiple tools, processes and complex scripting.

4 **Make Snapshots Smart**
   Intelligent integration orchestrates between snapshots and applications to capture clean, recoverable application images. Supports Microsoft® Exchange® Server, SQL Server™, Oracle®, IBM DB2, and more.

5 **Increase Understanding**
   Comprehensive reporting provides deep insight into storage and protection.

6 **Operate Securely**
   Sophisticated user management and delegation allow you to share tasks without compromising security.

► Commvault IntelliSnap technology integrates the complex lifecycle of snapshot management into one seamless framework.

THE CHALLENGE: MAKING ARRAY-BASED SNAPSHOTS WORK FOR YOU

Enterprises today increasingly turn to array-based snapshots to augment or replace legacy data protection solutions that have been overwhelmed by data growth and heighted recovery requirements. The challenge is that native array snapshot tools have varying degrees of functionality, automation, hardware support and application awareness, often requiring significant manual scripting to be effective.

Manually integrating snapshots and applications is not an easy task. It requires coordination across teams in your organization, and script-based solutions are easily broken by application, hypervisor or storage updates and configuration changes. The result can be significant staff time maintaining scripts or IT budget spent on costly outsourced projects due to lack of in-house expertise. Efforts can be frustrating, often delaying time-to-value for major disk hardware purchases.

COMMVAULT® INTELLISNAP® TECHNOLOGY

To overcome these challenges, Commvault provides Commvault IntelliSnap technology, an industry leading solution for snapshot management that streamlines and simplifies complex processes making snapshots more valuable and effective at protecting and recovering data and applications.

IntelliSnap technology centralizes snapshot management across different storage platforms; automates object, application and database recovery; and integrates snapshots with backup processes. The tight coupling of snapshots with data protection and recovery operations enables Commvault software to provide a complete view into data across applications, devices, and locations, cutting administrative overhead and improving access, availability and IT efficiency.

AUTOMATED SNAPSHOT MANAGEMENT

Commvault IntelliSnap technology enables a modernized approach to data protection by merging storage system hardware snapshots directly into the data protection process. IntelliSnap technology integrates tightly with both host applications and hardware array software. As the integration point between the two, IntelliSnap quiesces data, takes a snapshot, and resumes live operations. Then, via a proxy server, the backup copy operation can push the snap backup to cloud storage, secondary disk storage, or tape. IntelliSnap technology normalizes snapshot operations so they look the same and operate the same way regardless of application or storage platform.

For longer term retention copies, Commvault software offloads deduplication, backup and encryption to a separate host to minimize impact to production systems. Commvault software is able to discover volume/disk configurations for snapshot operations, and coordinate these operations with proper application awareness – minimizing configuration and eliminating any scripting requirements.

ORCHESTRATED OPERATIONAL RECOVERY

Commvault software's index spans all snapshot copies under management, enabling intuitive search and granular recovery within and across snapshots. Commvault IntelliSnap technology also automates database and application recovery across snapshots and secondary copies.

For example, to recover a database that is snapped every 6 hours, with log backups every 30 minutes and a backup to secondary storage once a day: simply select the database and a point in time to recover to. IntelliSnap software will restore the bulk of the data from the snapshot and then automatically replay the logs to bring the database back to the selected point in time. If an older recovery point is required, IntelliSnap software may pull data from the secondary copy as needed. Commvault software orchestrates the entire process between hardware and host.

STREAMLINE REPLICATION, ACCELERATE TEST / DEV OPERATIONS

For select arrays, IntelliSnap technology can simplify disaster recovery and test/dev operations by managing array-based replication and the creation of writable snapshot copies. IntelliSnap technology can manage array replication to create more frequent, more current DR copies – with full application awareness and granular recovery capabilities. The IntelliSnap feature can also create test/dev copies at the DR site, offloading test/dev from the production environment and eliminating the need for manual operations, labor-intensive refreshes, and scripts – significantly reducing overhead and accelerating test/dev operations.

> **What do you need to know to make a snapshot-based protection strategy successful? This report by 451 Research offers a thoughtful and considered investigation into the use of array-based snapshots to solve backup problems.**
>
> *The 451 Research Group: Backup to the Future.*
>
> **PDF** VIEW FULL REPORT[1]

TRULY UNIFIED PROTECTION AND RECOVERY FROM PRIMARY STORAGE TO ARCHIVE

IntelliSnap technology unifies data protection and recovery across all tiers. From managing snapshots on primary storage all the way to long-term retention on disk, tape or Cloud, IntelliSnap software combines all tiers of protection into a common interface with a single window for management, operations, reporting and alerting.

▶ TECHNICAL DATA

Applications	DB2, Lotus Notes, Microsoft Exchange Server, Microsoft SharePoint Server, Microsoft SQL Server, Oracle, Oracle RAC, SAP, MySQL
File Systems	Microsoft Windows File System, Linux & Unix File Systems
Hypervisors	Microsoft Hyper-V, VMware
Storage Platforms	**DataCore:** SANsymphony-V; **Dell:** Compellent, EqualLogic; **EMC:** Celerra, CX, DMX, Isilon, Symmetrix, VMAX, VNX; **Fujitsu:** ETERNUS DX; **Hitachi:** AMS, HUS-VM, USP/VSP, G1000; **HP:** 3PAR, EVA, XP; **Huawei:** OceanStor S2600T, S5500T, S5600T, S6800T; **IBM:** DS series, N-Series, SVC, XIV; **INFINIDAT:** InfiniBox; **NEC:** M-Series; **NetApp:** E-Series, FAS, SolidFire; **Nimble Storage:** CS Series; **Nutanix**; **Oracle:** Oracle ZFS; **Pure Storage**.

Not all applications, file systems and hypervisors are supported on each storage platform. Commvault periodically adds to the hardware and application support matrix. Please consult commvault.com or your Commvault sales representative for the most current list of supported systems and applications.

▶ RESOURCES

1 commvau.lt/1Y7a8E5

Easy snapshot backup and recovery is here. Learn more at **commvault.com/snapshots**.

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▶ PROTECT. ACCESS. COMPLY. SHARE.

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