SOLUTION BRIEF

InfiniBox® and Commvault®

Lenovo INFINIDAT

Innovation meets data currency

As business data continues to grow at a record pace, traditional backup and copy methodologies are not sufficient to keep data current. Leveraging snapshot technology to ensure the currency of business data is of vital importance to a company's bottom line.

Infinidat's patented InfiniSnap® technology, leveraged by Commvault Data Platform, ensures that your data is more current than any other vendor's snapshot feature.

Commvault Data Platform

Businesses today need a flexible and scalable method for duplicating their application data, one that understands applications and how to make production-ready copies of their data for backup and restore, development and testing, patching and modification, or any other use case deemed valuable to the organization. Additionally, businesses need the ability to automate the creation, cataloging, mapping, bringing online/offline, and restoring from these duplicates. In the past, all of these tasks were technically complex, requiring creating and maintaining manual scripts that understood every application in use, along with any tools necessary to accomplish each task.

The Commvault Data Platform, in conjunction with Infinidat's InfiniBox platform, automates each of these tasks, eliminating the need to create, test, and continuously update custom scripts. Commvault Data Platform is an enterprise-level, integrated data protection and management solution, built from the ground up on a single platform and unified code base.

Infinidat InfiniBox

The InfiniBox platform is based on a highly innovative, multi-patented, software-defined storage architecture (InfuzeOS) that runs on a high-availability hardware configuration. Powered by our patented Neural Cache AI/ML algorithms which provide deep learning optimized performance while decoupling from the underlying storage media. The InfiniBox platform is a compelling choice for data protection and business continuance, as well as Tier 0/1/2 use cases. Infinidat's unique performance optimized software design eliminates the dependance on the underlying hardware enabling us to use commodity components that outperform custom hardware providing lower acquisition costs, along with greater flexibility and scaling.

Infinidat also offers InfiniSafe® cyber storage resilience technology on our InfiniBox platform, consisting of a comprehensive set of features built into our storage platform that are designed to provide a strong defense against cyberattacks. As we know, cyberattacks are about leverage and backup repositories are a high value target in gaining this leverage. By protecting the entire backup repository this enables our customers to recover their data to an immutable, protected, and validated point in time, quickly and easily, at no additional cost. In fact, Infinidat provides an SLA-based InfiniSafe Cyber Storage Guarantee that you can recover immutable snapshots within 1 minute or less.

Paired with Commvault Data Platform, the combined solution is extremely compelling.

Key features of Commvault Data Platform include:

- A complete data protection solution supporting all major operating systems, applications, and databases
- Support for virtual servers (VMware and Hyper-V) and physical servers, as well as NAS shares, cloud-based infrastructures, and mobile devices
- Simplified management through a single console
- Multiple protection methods including backup and archive, snapshot management, replication, and content indexing for eDiscovery
- Policy-based data management, transcending limitations of legacy backup products by managing data based on business needs instead of physical location

Key features of the Infinidat InfiniBox include:

- Groundbreaking real-world application performance mainly contributed by architecture innovations, neural cache design, and real-time analytics
- SLA-based outcomes, guarantees 100% availability, performance, and cyber storage recoverability
- Storage densities, capacities, and efficiency that maximize floor space and storage platform consolidation to lower TCO and create a greener data center
- InfiniOps™ enables ease-of-use that significantly reduces the petabyte (PB) per full-time-employee (FTE) management ratio
- Economy of scale that dramatically lowers TCO and increases ROI for large scale, data intensive IT operations resulting in best time-to-value

Infinidat InfiniSnap Snapshots at a Glance

Every Infinidat platform includes the InfiniSnap capability for point-in-time snapshots. Unique to InfiniSnap is:

- Massive scalability, up to 100,000 snapshots per system
- No performance impact, regardless of snapshot frequency
- Ability to support dozens of snapshots per second with no performance impact
- Thin by default, requiring nearly zero additional capacity
- "Fast Overwrite" in-memory updates avoids unnecessary backend I/O and latency penalties common in systems requiring frequent destaging
- When destaging is required, InfiniRaid® uses massively parallel I/O operations across all available media capacity

A Passion for Innovation

The affinities between Commvault Data Platform and the InfiniBox platform are born of a similar passion for innovation. Both have comprehensive feature sets offering synergies with each other. One example is between Commvault IntelliSnap® and Infinidat InfiniSnap technologies.

Commvault IntelliSnap is extensively integrated with the applications that run your business,from Oracle to VMware to Microsoft to many others IntelliSnap understands how to snapshot data with application consistency with the lowest possible granularity–two essential elements in keeping data current. It does this by leveraging the snapshot technology in the underlying storage array–the most efficient, most reliable method for protecting your data. But all storage arrays are not created equal. To provide the highest level of protection and currency to your data, the implementation of snapshots for your storage matters greatly.

InfiniSnap is a patented, non-locking, snapshot technology that uses timestamps to eliminate the inherent scalability and performance issues common with snapshots from other vendors. Metadata, for volumes and snapshot operations, is maintained with a highly efficient implementation of Infinidat's patented Trie data structure.

The use of the Trie enables nearly limitless scalability of data operations. This means that your business can create snapshots for all of its data, at any frequency, with ZERO impact on the performance of the array during the snapshot and all subsequent I/O operations.

Infinidat innovation ensures that your data, at any point in time, is always available and always current.

By coupling Commvault's inline data deduplication technology with Infinidats industry leading density and usable capacity, customers typically experience an ingest rate of 13TB per hour or more on a single MediaAgent. This represents a tremendous value to enterprise customers who are looking for new, more impactful opportunities for infrastructure consolidation and cost savings.

Finally, Commvault and Infinidat provide an ability to create a single library spanning multiple target devices by adding multiple mount points. This allows Commvault's "Fill and Spill" or "Spill and Fill" capabilities to see these multiple targets as a single namespace and either fill them up sequentially or allocate jobs across the targets.

Data Protection for the Future

Commvault and Infinidat have collaborated on a verified solution that combines the features of the Infinidat Infinibox platform with industry-leading Commvault software. This proven combination of technologies enables mutual customers to quickly realize the value of simple and efficient backup and recovery operations, to meet your company's RPO/RTO goals.

At the end of the day, with the Commvault Data Platform and Infinibox platform, your organization gains a competitive advantage over your business peers and your data has the currency required to move your business forward at all times.

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