Powering Scale Out Cyber Resilience with Lenovo ThinkSystem SR650 V3 Server and Commvault Cloud HyperScale™ X Software

In the era of data-driven enterprises, the combination of the award-winning Lenovo ThinkSystem SR650 V3 server and Commvault Cloud Hyperscale X software offers a robust and scalable solution for organizations seeking to elevate their cyber resilience and data security capabilities. This solution brief provides an overview of the key features and benefits of integrating Commvault's innovative Hyperscale X software with Lenovo's cutting-edge server platform.

Commvault Cloud Hyperscale X

Commvault, a global leader in cyber resilience solutions, offers a unified approach to data protection, recoverability, and security. HyperScale X is an intuitive and easy-to-deploy integrated solution with a distributed scale-out file system that provides unmatched scalability, security, and resilience. Its flexible architecture allows you to get up and running quickly and grow as your needs demand. Some of the benefits include:

- Simple, flexible protection and accelerated recoverability for all workloads, on—premises or in the cloud, including containers, virtual, and databases

- Enhanced, multi-layered ransomware protection with AI-driven anomaly detection to uncover threats faster and immutable storage to prevent critical data from being encrypted, modified, or deleted. Optimized scalability to easily grow capacity in single-node increments as needed

- Advanced storage efficiency and resilience with intelligent load balancing of data across disks and nodes and the ability to support concurrent hardware failures

Cost-optimized cloud data mobility with native integration to move data to, from, and between clouds, avoiding vendor lock-in.By shifting the secondary storage and data management infrastructure to a scale-out architecture, enterprises can help transform their data centers to be as operationally efficient, resilient, and scalable as public cloud infrastructure. HyperScale X allows organizations to replace limited and legacy backup tools with a modern hybrid-cloud-enabled data management solution that eliminates expensive forklift upgrades.

Lenovo ThinkSystem SR650 V3 Server: Maximize Scalability and Performance

The Lenovo ThinkSystem SR650 V3 server is a powerhouse designed for versatility, capacity, and performance. Built on the latest Intel® Xeon® processor family and the latest DDR5 memory, the ThinkSystem SR650 V3 offers the low-latency, high-capacity performance necessary to tackle today's workloads. This server is designed to enable organizations to customize and scale their infrastructure as business requirements evolve, including flexible storage options with hot-swap drives.

- **Performance:** Powered by 5th Gen Intel® Xeon® processors, the Lenovo ThinkSystem SR650 V3 offers high-performance computing optimized for resource-intensive tasks. 5th Gen Intel® Xeon® Scalable Processors enable 2.3x increase in virtual machines*

- **Scalability:** Support for a wide variety of GPUs, drive types and AnyBay™ storage allows organizations to scale computing, storage, and networking resources independently, providing flexibility and the ability to evolve with future infrastructure requirements.

- **Reliability:** Lenovo ThinkSystem servers are rated #1 for reliability by ITIC when surveyed about downtime and security breaches.

- **Security:** Advanced security features, including ThinkShield's hardware-based encryption and firmware resilience, safeguard sensitive data against evolving threats

- **Management:** ThinkSystem Intelligent Monitoring offers proactive system management, optimizing performance and simplifying day-to-day operations

- **Efficiency:** Improved energy efficiency with 77% better performance per watt*

When comparing ThinkSystem SR650 V3 vs ThinkSystem SR650

Solution Benefits

Commvault Cloud Hyperscale X software represents a breakthrough in scale-out cyber resilience, providing a turnkey, high performance solution to meet the security and recoverability needs of the modern hybrid cloud. Built on Lenovo ThinkSystem SR650 V3, HyperScale X offers an integrated solution for cyber recovery and ransomware protection. Combining the Lenovo ThinkSystem SR650 V3 server and Commvault Hyperscale X software creates a powerful data protectionsolution that delivers exceptional performance, scalability, and efficiency.

- **Optimized Performance:** The computing power of the Lenovo ThinkSystem SR650 V3 combined with Hyperscale X's intelligence and efficiency ensures optimal performance during backups and restores.

- **Flexibility:** Commvault Cloud HyperScale X on Lenovo ThinkSystem SR650 V3 servers enables organizations to scale their infrastructure and data protection capabilities granularly to match their growth and business needs.

- **Reliability and Data Integrity:** Lenovo's server reliability complements Hyperscale X's built-in resiliency, ensuring data integrity and availability.

- **Unified Management Interface:** Integrated management interfaces allow administrators to oversee both hardware and software components seamlessly, reducing complexity in daily operations.

- **Cost-Effective Solution:** with HyperScale X on Lenovo ThinkSystem, organizations can achieve significant cost savings through simplified deployment and management, optimized resource utilization, and reduced downtime.

Conclusion

The integration of Lenovo ThinkSystem SR650 V3 server and Commvault Hyperscale X software offers a powerful and unified solution for organizations aiming to elevate their cyber resilience and data security capabilities. This collaboration empowers enterprises to navigate the complexities of modern hybrid data environments with confidence, ensuring data protection, high performance, and adaptability to meet the challenges of today and tomorrow.

For more information, see these resources:

- ThinkSystem SR650 V3 product page: https://www.lenovo.com/us/en/p/racks/len21ts0013
- ThinkSystem SR650 V3 datasheet: https://lenovopress.com/ds0143
- Interactive 3D Tour of the ThinkSystem SR650 V3: https://lenovopress.lenovo.com/lp1621-thinksystem-sr650-v3-interactive-3d-tour
- ThinkSystem SR650 V3 drivers and support http://datacentersupport.lenovo.com/products/servers/thinksystem/sr650v3/7d76/downloads
- Lenovo Hardware Installation & Removal Videos on the SR650 V3: https://www.youtube.com/playlist?list=PLYV5R7hVcs-BmyijyY0-lNvapM4fTV5Gf

- Commvault Articles: Lenovo and Commvault Deliver Better Data Protection and Recovery Solutions Together
- Lenovo ThinkSystem SR650 V3 product publications: https://pubs.lenovo.com/sr650-v3/
  - User Guide, which includes:
    - System Configuration Guide
    - Hardware Maintenance Guide
  - Rack Installation Guides
  - Messages and Codes Reference
  - UEFI Manual for ThinkSystem Servers
- User Guides for options: https://serveroption.lenovo.com
- ServerProven hardware compatibility: http://serverproven.lenovo.com