

Solving The Radical Unforeseen AI Created Backup Problem

March 2026

THE INTRACTABLE KNOTTY CONSEQUENCES OF THE AI PARADIGM SHIFT

AI machine learning (AI-ML) and even more so, generative AI large language models (GenAI LLM) have created highly problematic unforeseen data center problems. AI has an insatiable appetite for GPUs, CPUs, memory, SSDs, HDDs, and power. That appetite has exponentially increased demand. Fab manufacturers are running at 100%. It takes years to build a new fab plant. HDD manufacturers are no better with supply fully allocated through 2026. The semiconductor wafer shortage that underlies all of this is projected to persist until 2030. The power grid cannot handle demand. Data centers are running out of power.



The storage required for backup and recovery — the storage that protects everything else an organization does — is now competing for the same scarce resources as AI infrastructure, hyperscaler expansion, and every other data center build-out on the planet.

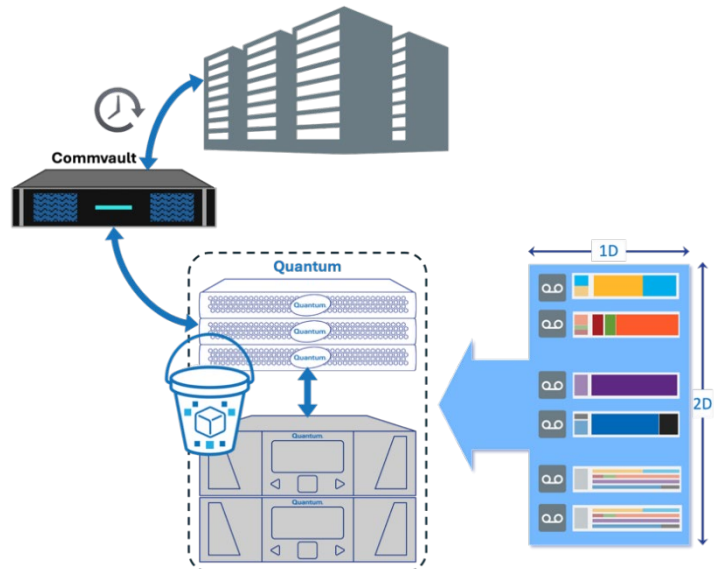
None of this has reduced the need for backup. Data volumes continue to grow at an astounding rate, retention requirements have moved to forever because there's value in that data, and recovery time objectives (RTO) have not gotten any longer. What's changed is that every terabyte of protection now costs excessively more to acquire, takes

considerably longer to procure, and has much higher operating costs. All of which means the backup storage cost, whether on-premises or in the cloud, has become unsustainable.

HOW THE COMBINATION OF COMMVAULT AND QUANTUM SOLVES THESE CONSEQUENTIAL PROBLEMS

Commvault is the worldwide leader in comprehensive data protection and cyber resilience. Its backup solutions empower organizations to secure, manage, and recover their data across their mission-critical environments both in the cloud and on premises. This is achieved through a unified platform that integrates advanced technologies like AI for automation, proactive defense against evolving threats, and extensive deduplication.

Quantum is the industry's preeminent provider of highly reliable, and available target storage. That storage leverages their broad range of best-in-class tape libraries with ActiveScale® Object Storage to deliver very fast and incredibly cost-effective systems. This combination is called ActiveScale Cold Storage. It supports both the S3 Standard and the S3 Glacier storage classes, patented 2D erasure coding within tapes and across tapes delivering up to 15 nines of durability. ActiveScale Cold Storage can pair with any of Quantum's Scalar® Tape Libraries as well as multiples of those libraries scaling from 1 PB to EBs. These systems substantially reduce the number of backup HDD drives and power consumption by up to 99%.



Combining Commvault with Quantum in a single system enables IT organizations a powerful solution providing them the best backup and cyber resilience possible with the lowest possible backup storage costs.

FOR MORE INFORMATION GO TO:

www.commvault.com/contact-us

www.quantum.com/en/company/contact-us/