

RANSOMWARE RECOVERY SOLUTIONS

Ransomware recovery across the data lifecycle—helping organizations reduce downtime, loss of revenue, and maintain client trust.

THE RELENTLESS ONSLAUGHT OF RANSOMWARE

Ransomware continues to be on the rise, and its onslaught is unrelenting. Attacks are now occurring every 11 seconds and demand for payments continue their upward trend. Over the past year, backup environments have become a main target, and criminals are focusing on methods to disable your recovery mechanisms. If they're able to render your system incapable, they have no doubt ransom will be paid. With a successful attack, it can take several days or even months to fully recover. This is especially true when targeted campaigns wipe out clusters of servers—there is no remedy, except to rebuild. Quantum has a solution to recover your data from any point in your data's lifecycle.

DATA RECOVERY SOLUTIONS FOR ANY TIER IN THE DATA LIFECYCLE

To counterattack the onslaught of ransomware and defend your data, Quantum has developed comprehensive solutions to help accelerate the recovery process and restore data from any point of your data's lifecycle, reducing downtime and loss of revenue, and maintaining client trust. The different capacity tiers give you the flexibility to choose where you want to store your data and how you want to recover. If data has been moved from a high-performance tier to an active archive or long-term archive, your data will still be readily accessible when you need it.

SOLUTION BENEFITS

- **Recovery from Any Point of Your Data Lifecycle**
When your network is breached, you don't know the extent of the damage. With our comprehensive solutions, you have the flexibility to recover your data instantly, or within a few minutes, depending on the tier where it is stored.
- **Minimize Complexity, Maximize Efficiency**
To meet SLAs and reduce downtime, storing critical data in a fast-performing tier will accelerate recovery by restoring data from an isolated and immutable location with instant views to your snapshots. You can also maximize efficiency by tiering to other storage media, like object storage archives and air gapping with tape on premise.
- **Cost-Effective, Reliable, Flexible Storage That Scales on Your Terms**
Realize immediate CAPEX savings when you extend the capacity of on-prem storage platforms. You may not need to provision expensive storage arrays when you can offload less-critical data to lower-capacity tiers.

DATA RECOVERY SOLUTIONS BY TIER

HIGH-PERFORMANCE TIER – Instantly Restore Backup Data

To ensure the availability of your data, this fastest-performing tier helps you accelerate recovery by restoring data from an isolated and immutable location that allows you to instantly view your snapshots and recover from any point in time depending on your policy. The immutable data resides in a non-addressable block pool that is completely invisible to the backup application and unable to be encrypted or deleted.



DXi Backup Appliances

For data stored in backup environments, DXi® backup appliances include a Secure Snapshot feature, which employs a protocol separation to move your snapshot to a non-network addressable storage pool, allowing data to remain immutable.

ACTIVE ARCHIVE TIER – For Long-Term Retention and Compliance

To meet the demands of a forever or an active archive for high-performance computing (HPC), scientific research, media and entertainment, and more, storing multiple petabytes of data needs to be secured and recoverable to maintain compliance and resiliency in threatening environments.



ActiveScale Object Storage

For multi-petabyte data archives, ActiveScale’s Object Lock feature enables you to protect valuable data by creating immutable backups. With S3 compatibility, Dynamic Data Placement (DDP), and Dynamic Data Repair (DDR), ActiveScale™ ensures that your data’s longevity and integrity remain intact with erasure coding across drives, nodes, and sites.

LOWEST-COST, LONG-TERM RETENTION TIER – Physical Air Gapping with Tape Storage

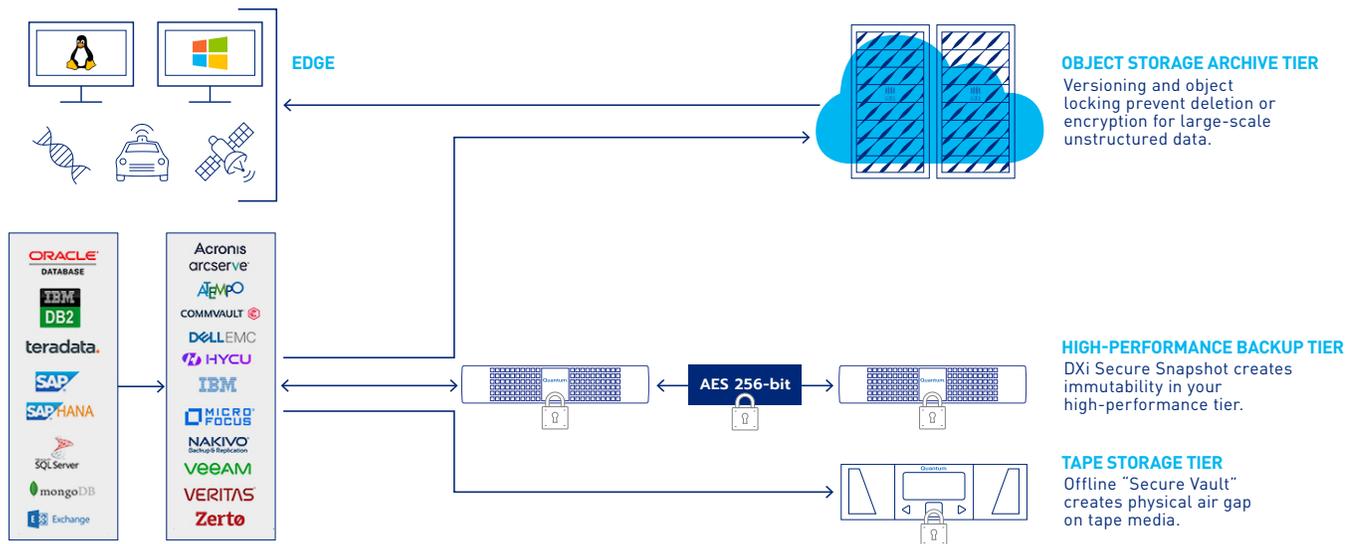
Air gapping your data is the most cost-effective method to store, protect, and recover from a ransomware attack. It thwarts bad actors from reaching your data due to the physical barrier between your data and the network.



Scalar Tape Libraries

For data stored on tape, Quantum Scalar® tape libraries use Active Vault, a hands-off approach to managing media between an active and vaulted partition that is completely disconnected from the network, enabling a physical air gap to thwart the effects of ransomware or other malware. A vault partition (Active Vault) in the library keeps your clean copies isolated and immutable. Data in the Active Vault partition is further hardened by Multi-Factor Authentication and AES 256-bit encryption, making access to the data more challenging and restricted. The Active Vault partition is only accessible via the GUI interface, completely invisible to the backup application. Active Vault also enables the robot to manage the media for you, so your admins can focus on more critical aspects of your backup environment.

Figure 1. Data Recovery Solutions for Any Tier in the Data Lifecycle



To learn more about Quantum’s Ransomware Recovery Solutions, visit: www.quantum.com/ransomware-recovery



Quantum technology and services help customers capture, create, and share digital content—and preserve and protect it for decades at the lowest cost. Quantum’s platforms provide the fastest performance for high-resolution video, images, and industrial IoT, with solutions built for every stage of the data lifecycle, from high-performance ingest to real-time collaboration and analysis and low-cost archiving. Every day the world’s leading entertainment companies, sports franchises, research scientists, government agencies, enterprises, and cloud providers are making the world happier, safer, and smarter on Quantum. See how at www.quantum.com.

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