

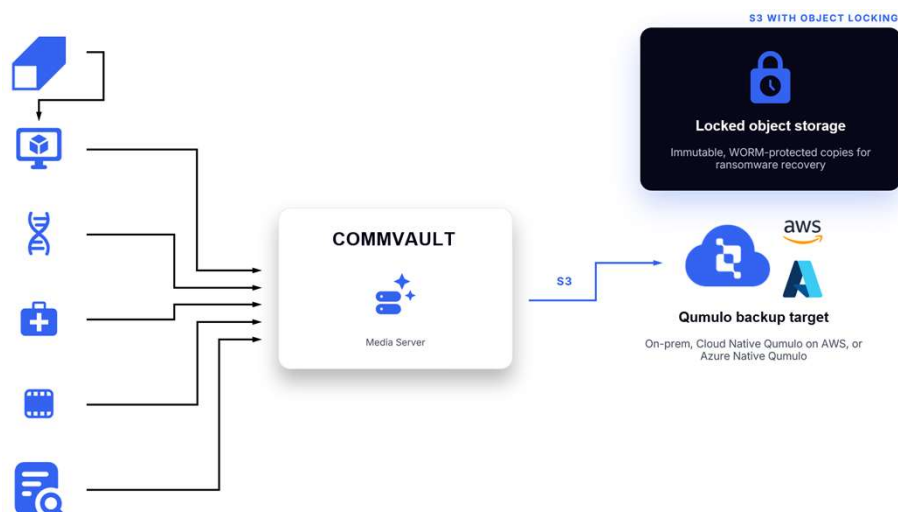


Immutable, Integrated Backup: Azure Native Qumulo as a Commvault S3 Target

ANY DATA
ANY LOCATION
TOTAL CONTROL

EXECUTIVE SUMMARY

Ransomware and insider threats have made immutable backups essential — but protection shouldn't come at the expense of cost, performance, or recovery speed. As a Commvault-validated S3 backup target, Azure Native Qumulo (ANQ) delivers immutable, object-locked backups with true WORM protection, while providing the integration, performance, and economics of a platform built for enterprise data.



THE CHALLENGE

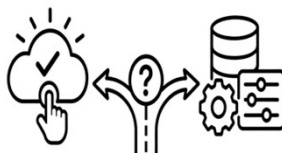
Managed backup clouds simplify operations but create a disconnected, single-purpose silo with growing transaction costs. Bare object storage offers more control but sacrifices integrated immutability, file-level access, and predictable economics. Backup shouldn't force a choice between simplicity and control.



Managed Backup Clouds



Bare Object Storage



The Wrong Choice

KEY BENEFITS

Qumulo as Commvault S3 Target provides:

- **Integrated management:** One Qumulo platform and governance model across on-premises and cloud environments.
- **Fewer transactions:** NeuralCache reduces backend reads and writes, lowering transaction costs.
- **Elastic scale:** Dynamically scale capacity and throughput without cluster administration.
- **Beyond backup:** Serve SMB, NFS, and S3 workloads from the same namespace.
- **No lock-in:** Standards-based S3 keeps data portable across compatible platforms.

**Backup that fits
how you already
manage data —
not a silo bolted
onto it.**

SOLUTION OVERVIEW

Qumulo natively serves data over the Amazon S3 API — not through a gateway or translation layer, but as a first-class protocol on the same file system that also serves SMB and NFS.

Commvault connects to Azure Native Qumulo (ANQ) as a standard S3-compatible cloud storage target: you create a bucket and access keys on ANQ, point Commvault's cloud storage library at the ANQ S3 endpoint, and Commvault writes backup data directly to it. Because Qumulo is a validated, first-class Commvault S3 target, this is a supported, proven path rather than a best-effort configuration — no custom integration work required.

Every backup object Commvault writes is protected by genuine S3 Object Lock, enforced in Compliance mode — the stronger of the two S3 lock modes, in which no user or privileged account, including administrators, can shorten a retention period or delete a locked object before it expires. Commvault's own WORM retention policy drives Qumulo's Object Lock retain-until dates automatically. Beyond object-level protection, Qumulo can take locked, cryptographically protected snapshots of your entire backup repository — a second, independent immutability layer that can also be replicated and locked at a second site.

Underneath all of this, Qumulo's NeuralCache delivers all-flash writes for optimal backup performance against the back-end object store. With a continuously self-optimizing algorithm that prefetches data from the object layer to NVMe ahead of need, NeuralCache serves up to 99% of all read requests from flash storage, with nothing for you to configure or tune.

ANQ is a fully managed service: Qumulo operates the cluster on your behalf, with your data isolated and exclusively accessible to you, so capacity and performance scale elastically as your backup footprint grows, with no cluster administration on your side. And because the target is a standard S3 endpoint, your data is portable — moving it to another S3-compatible target is a standard migration, not a proprietary export process.

KEY OUTCOMES

The result is backup data that's immutable by design and restorable on your own network, at a materially lower and more predictable cost than a disconnected managed-cloud tier. Recovery testing, compliance audits, and disaster-recovery drills stop showing up as unplanned cost spikes, because the transaction volume behind them is absorbed locally instead of metered against the backend. And because the same platform serves live file workloads alongside your backups, the investment doesn't sit idle as a single-purpose vault, and it fits into the same governance model as the rest of your data instead of adding a new one. You get audit-ready immutability, predictable economics, and a backup target that's part of your platform rather than bolted onto it.

CONCLUSION

Most backup targets ask you to accept a trade-off: a convenient but disconnected silo, or infrastructure control with none of a purpose-built platform's immutability depth or economics. Azure Native Qumulo removes the trade-off rather than picking a side of it — immutable by design, integrated with how you already manage data, and priced for how it's actually used rather than just how much of it there is. Commvault and Azure Native Qumulo over S3 give you audit-ready, admin-proof immutability with the integration, performance, and economics of a platform built to scale with you. Talk to your Qumulo account team to size an ANQ backup target for your Commvault environment.

ABOUT QUMULO

Qumulo is the leading provider of cloud file data platforms, offering unrivaled performance, scale, and data management solutions. Qumulo's platform is trusted by Fortune 500 companies and global enterprises to manage petabytes of data, enabling them to unlock the value of their data and drive innovation. For more information, visit www.qumulo.com.